LDM136-151

All-in-One Direct View LED Display
User Guide

IMPORTANT: Please read this User Guide to obtain important information on installing and using your product in a safe manner, as well as registering your product for future service. Warranty information contained in this User Guide will describe your limited coverage from ViewSonic® Corporation, which is also found on our web site at http://www.viewsonic.com in English, or in specific languages using the Regional selection box of our website.

Model No. VS19933
P/N: LDM136-151

Thank you for choosing ViewSonic®

As a world-leading provider of visual solutions, ViewSonic® is dedicated to exceeding the world's expectations for technological evolution, innovation, and simplicity. At ViewSonic®, we believe that our products have the potential to make a positive impact in the world, and we are confident that the ViewSonic® product you have chosen will serve you well.

Once again, thank you for choosing ViewSonic®!

Safety Precautions

Please read the following **Safety Precautions** before you start using the device.

- Keep this user guide in a safe place for later reference.
- Read all warnings and follow all instructions.
- Ensure there is no direct airflow from air conditioning blowing on the display.
- Do not use the device near water. To reduce the risk of fire or electric shock, do not expose the device to moisture.
- Avoid exposing the device to direct sunlight or other sources of sustained heat.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other devices (including amplifiers) that may increase the temperature of the device to dangerous levels.
- When moving the device, be careful not to drop or bump the device on anything.
- Do not place the device on an uneven or unstable surface. The device may fall over resulting in an injury or a malfunction.
- Do not place any heavy objects on the device or connection cables.
- If smoke, an abnormal noise, or a strange odor is present, immediately turn the device off and call your dealer or ViewSonic®. It is dangerous to continue using the device.
- Do not attempt to circumvent the safety provisions of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade and the third prong are provided for your safety. If the plug does not fit into your outlet, obtain an adapter and do not attempt to force the plug into the outlet.
- When connecting to a power outlet, DO NOT remove the grounding prong. Please ensure grounding prongs are NEVER REMOVED.
- Protect the power cord from being treaded upon or pinched, particularly at the plug, and at the point where it emerges from the equipment. Ensure that the power outlet is located near the equipment so that it is easily accessible.
- Only use attachments/accessories specified by the manufacturer.
- When a cart is used, use with caution when moving the cart/equipment combination to avoid injury from tipping over.



- Disconnect the power plug from the AC outlet if the device is not being used for a long period of time.

- Place the device in a well-ventilated area.
- Do not cover the surface of the display with any material.
- Do not block the air circulation around the display.
- Keep flammable materials away from the display.
- Refer all servicing to qualified service personnel. Service will be required when the unit has been damaged in any way, such as:
  - » if the power supply cord or plug is damaged;
  - » if liquid is spilled onto or objects fall in the unit;
  - » if the unit is exposed to moisture;
  - » if the unit does not operate normally or has been dropped.
- Do not assemble the display by yourself.
- This panel is an advanced product that contains millions of pixels. You may occasionally see pixel spots when viewing the screen. Since these deactivated pixels are not a defect, the performance and reliability of the product is not affected. For more information, please see page 176.

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Introduction

Package Contents

Item	Description	Quantity	Note
Installation Guide		1	
LED Display	Cabinet Section	5	One Left (E), three Middle (D, C, B), and one Right (A).
	LED Module	100	The quantity of spare LED modules varies by country.
Screen Bezel		5 x Left 5 x Right	
System Control Box	System Control Box	2	
	System Control Box Cover	2	
	Connector Plate	1	
	System Control Box Maintenance Tool (LD-MK-004)	1	
Wall Installation	Wall Mount Brackets	4	2 x 1799 mm 2 x 1199 mm
	Wall Mount Connector Plate	2	
Accessories	Screws	20 × M8 × 80 mm 22 × M8 nuts 74 × M8 × 20 mm 12 × PM6 × 10 mm 16 × M3 × 10 mm 16 × M3 × 6 mm 5 × M2.5 × 4 mm	
	Hand Tools	2 x Cross-head screwdrivers 2 x Rachet wrenches	
	Anti-Static Gloves	2 pairs	

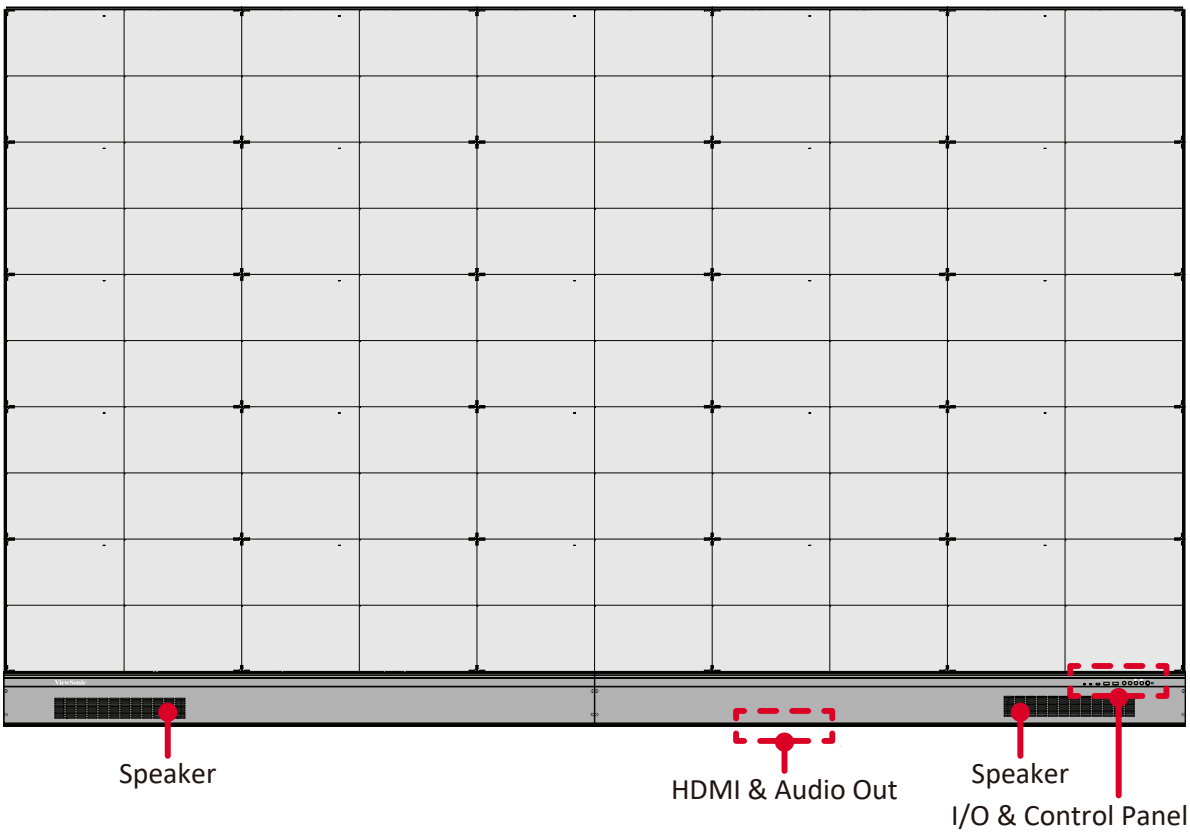
Item	Description	Quantity	Note
Remote Control		1	
Ethernet Cable (3.5 m)		1	
IR Extension Cable (3 m)		1	
Vacuum Suction Tool (LD-MK-003)		1	
USB Thumb Drive		1	

NOTE:

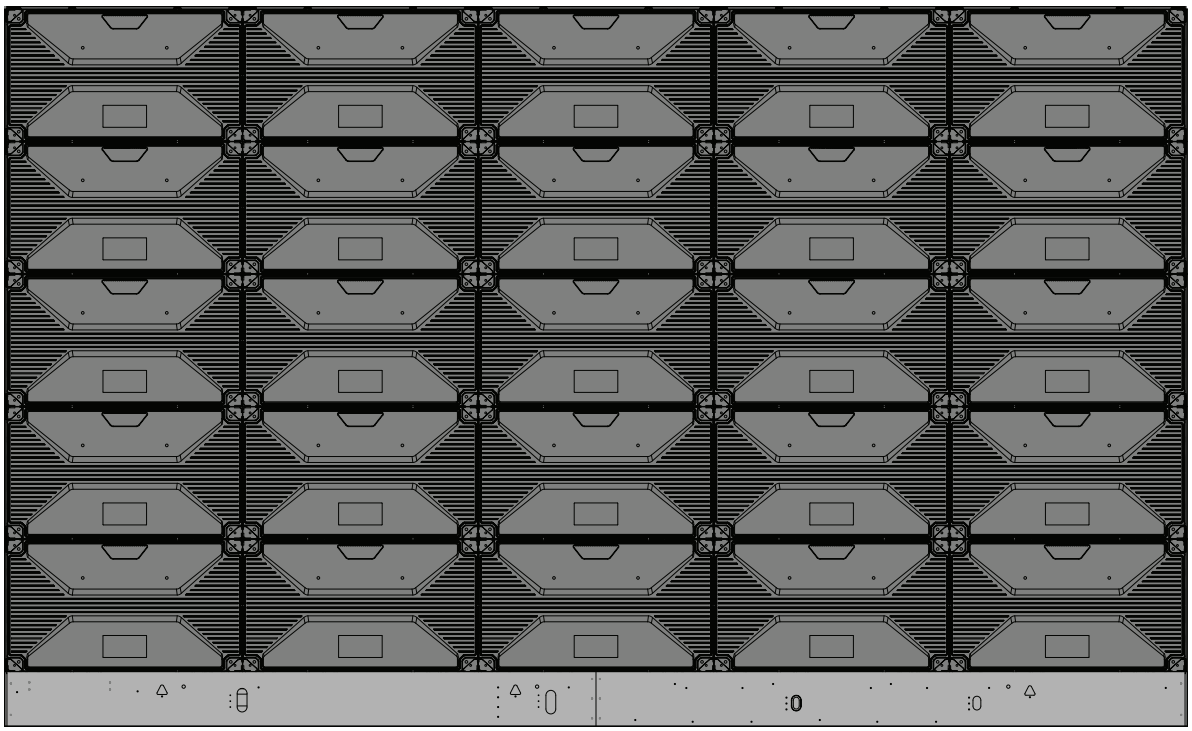
- This product is packed in a wooden crate.
- Due to the size and weight, it is recommended that two or more people handle it.
- The base stand (trolley) is an optional accessory and sold separately.

Product Overview

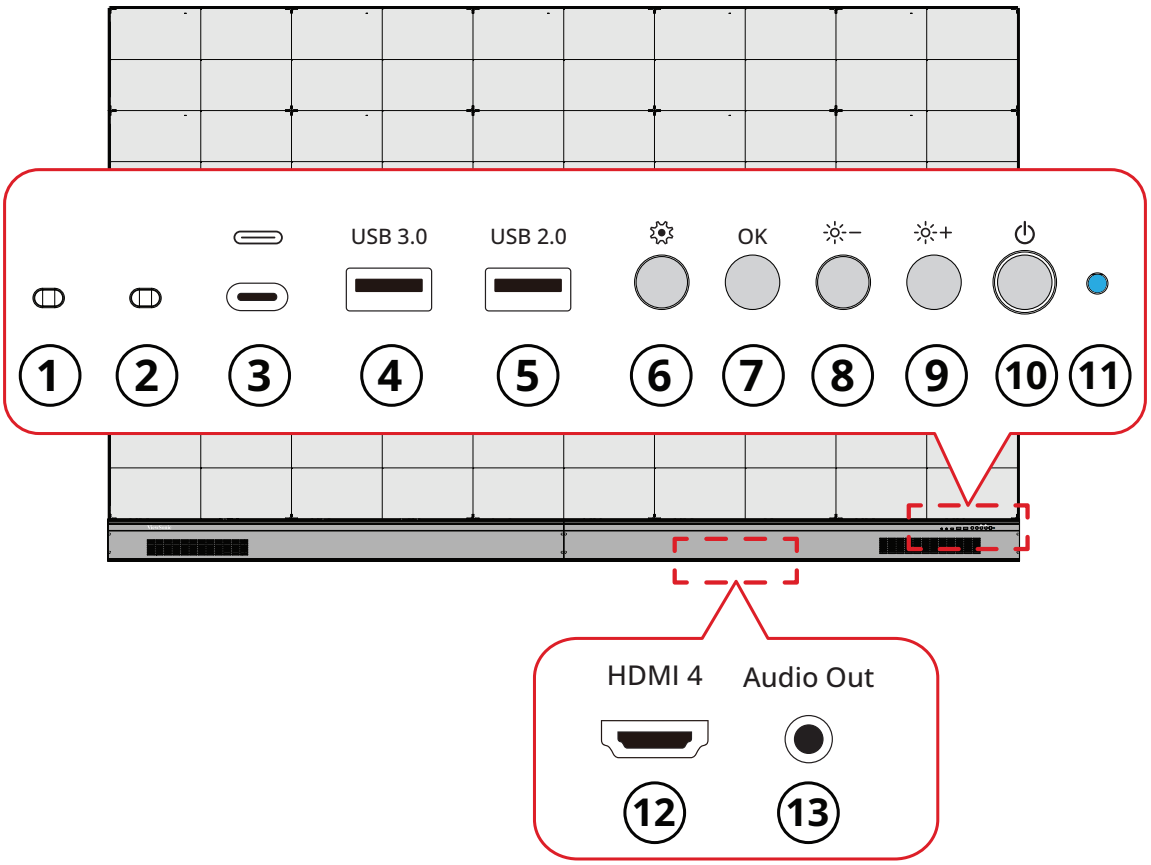
Front View



Rear View



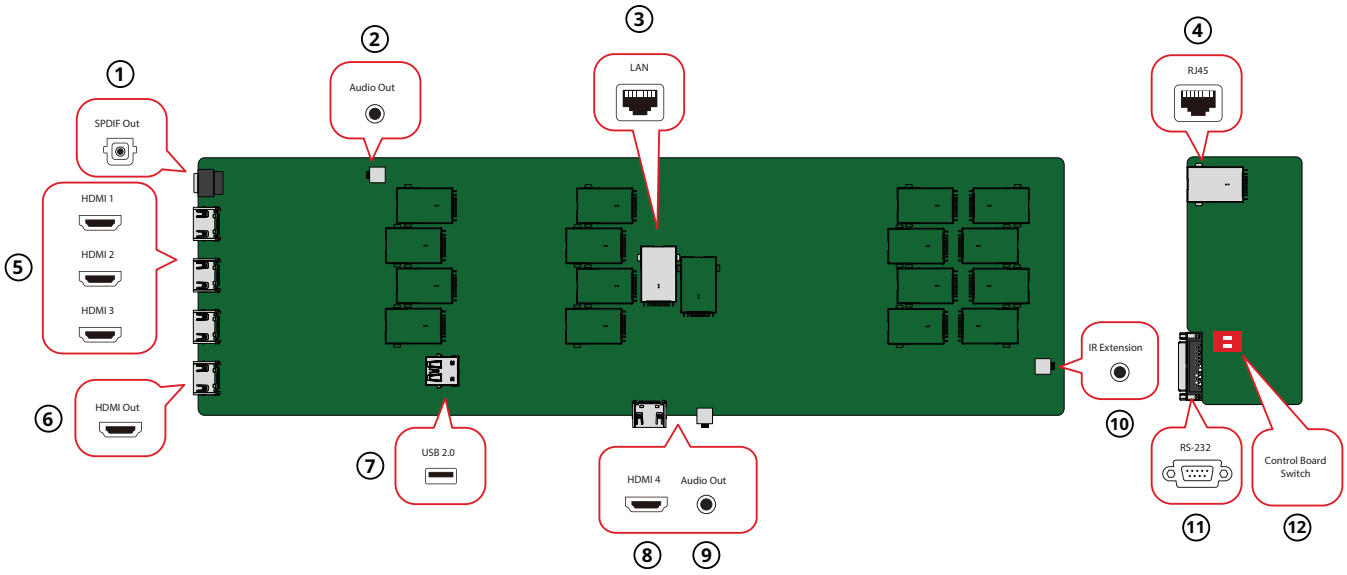
Control Panel and I/O



Item		Description
1	Light Sensor	Ambient light sensor.
2	IR Receiver	Receiver for remote control signal.
3	USB Type C	USB 2.0 support (5V/1.0A).
4	USB 3.0	USB Reader (5V/0.9A).
5	USB 2.0	USB Reader (5V/0.5A).
6	Menu	Open the display settings or On-Screen Display (OSD) Menu.
7	Brightness/OK	• Brightness adjustment button. • Confirm selection when the OSD Menu is open.
8	Brightness Decrease	Decrease the brightness level.
9	Brightness Increase	Increase the brightness level.
10	Power	Power on, standby and wake button.
11	Indicator Light	Power status indicator light.
12	HDMI 4	High definition input: PIP/PBP, connect to PC with HDMI output, set-top box, or other video device.
13	Audio Out	Audio output to an external audio device.

I/O Ports

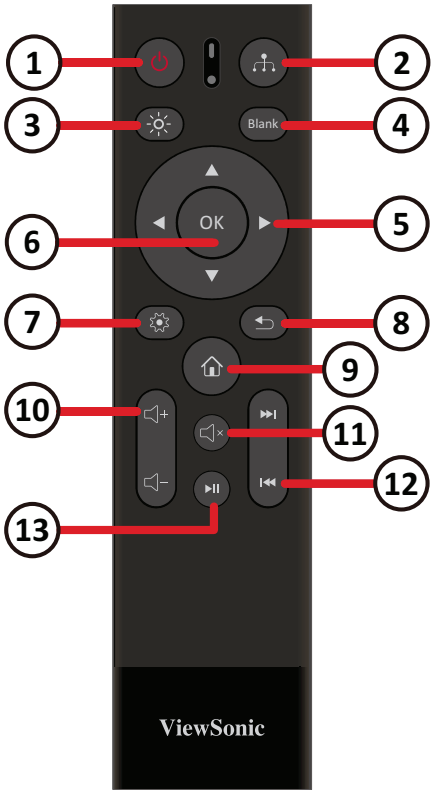
NOTE: The below I/O ports are accessed by removing the right side of the System Control Box Cover.



Item		Description
1	SPDIF Out	Multi-channel optical audio signal.
2	Audio Out	Audio output to an external audio device.
3	LAN	Standard RJ45 (10M/100M/1000M) Internet connection interface.
4	RJ45	Standard RJ45 control connection interface.
5	HDMI 1/2/3	High definition input: PIP/PBP, connect to PC with HDMI output, set-top box, or other video device.
6	HDMI Out	Extend the display's content out to another display device.
7	USB 2.0	USB Type A port for power (5V/2A).
8	HDMI 4	High definition input: PIP/PBP, connect to PC with HDMI output, set-top box, or other video device. **NOTE:** This port can also be accessed without removing the System Control Box Cover.
9	Audio Out	Audio output to an external audio device. **NOTE:** This port can also be accessed without removing the System Control Box Cover.
10	IR Extension	Connection point for an extended IR receiver.
11	RS-232	Serial control port.
12	Control Board Switch	Control switch for the control board. **NOTE:** Make sure to switch to the left for RS-232 control.

Remote Control

Button		Description
1	Power	Turn the display on or off.
2	Source	Select the input source.
3	Brightness	Adjust the screen's brightness level.
4	Blank	Change the current screen to a black screen.
5	Directional	Navigate menus and make adjustments.
6	OK	Confirm the selection.
7	Menu	Open the display settings or On-Screen Display (OSD) Menu.
8	Return	Return to the previous screen or exit a menu.
9	Home	Go to the Home screen.
10	Volume Control	Adjust the volume level.
11	Mute	Turn off the display's sound.
12	Forwards/ Backwards	Move to next or previous content.
13	Play/Pause	Play or pause content.



Bluetooth Remote Control Pairing

To pair the remote control:

1. Make sure Bluetooth is enabled, go to: **Settings** > **Network** > **Bluetooth** > **Enable**.

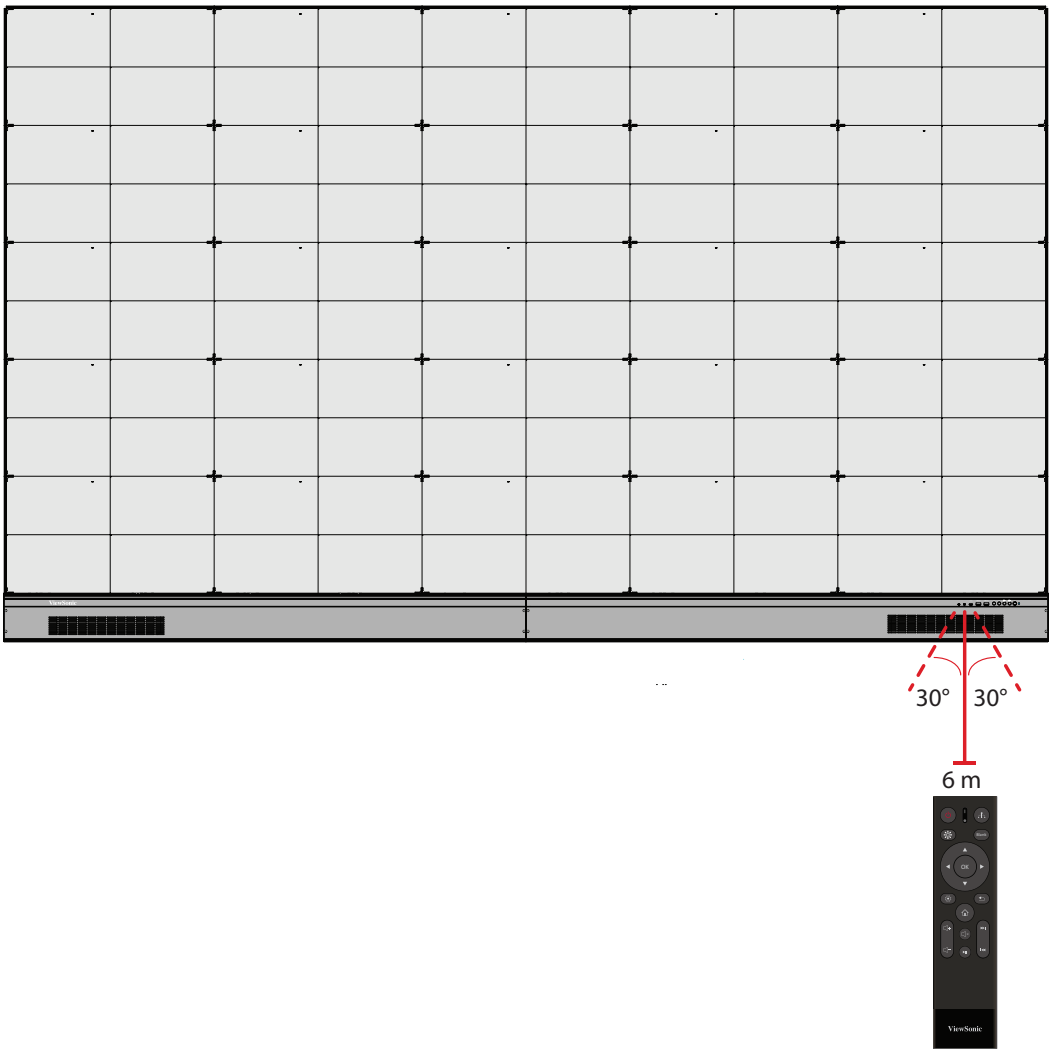
2. Press and hold the **Menu** (⚙) and **Return** (⮌) buttons for approximately three seconds until the indicator on the remote control flashes blue.

3. If the pairing is successful, a pop-up message will appear on the screen.

NOTE: If the pairing is unsuccessful after one minute, please try again by repeating Step 1 above.

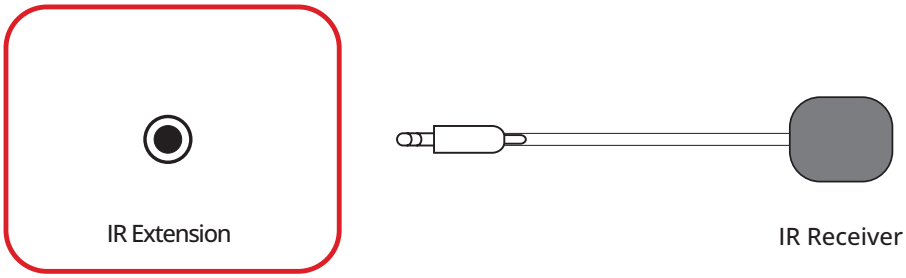
Remote Control Receiver Range

The operating range of the remote control is shown here. It has an effective range of 6 meters (20 feet), 30° degrees left and right. Please make sure there is nothing obstructing the remote control's signal to the receiver.



IR Extension

If an additional IR Receiver is needed, an IR extension cable can be connected to the **IR Extension** port of the display.



NOTE: The **IR Extension** port is accessed by removing the System Control Box Cover.

Inserting Remote Control Batteries

The remote control is powered by two 1.5V "AAA" batteries.

To insert batteries into the remote control:

1. Remove the cover on the rear of the remote control.
2. Insert two “AAA” batteries, ensuring the positive (+) symbol on the battery matches the positive (+) symbol on the battery post.
3. Replace the cover by aligning it with the slot on the remote control and snapping the latch shut.

WARNING: There is a risk of explosion if batteries are installed with incorrect polarity.

NOTE:

- It is recommended that you do not mix battery types.
- Avoid exposure to heat or steam.
- Do not allow water or other liquids to splash on the remote control. If the remote control becomes wet, wipe it dry immediately.
- Always dispose of old batteries in an environmentally friendly way. Contact your local government for more information on how to dispose of batteries safely.

Installation

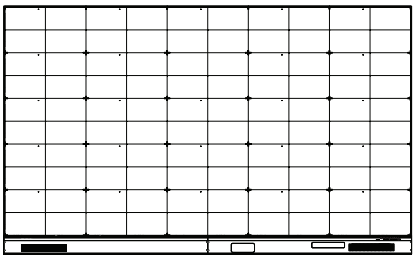
Introduction

The step-by-step instructions in this guide are a general reference for installing the LED Display. If any details in this document are unclear, please contact your reseller for more information.

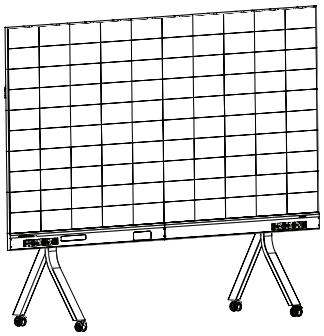
NOTE: It is recommended to ask your reseller or licensed professional to install the LED Display.

About the LED Display

The LED Display can be installed on the wall or on a trolley.

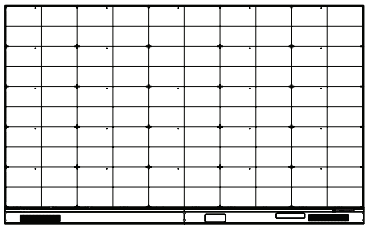


Wall Installation

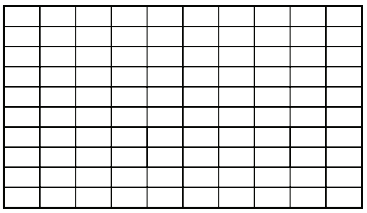


Trolley[1]

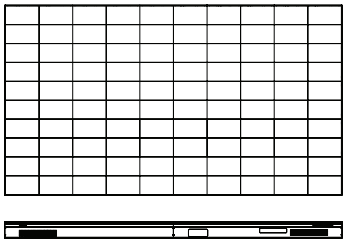
You can mount the System Control Box in three different ways:



Under the Cabinets
(Standard Installation)



Behind the Cabinets
(Hidden Installation)



Apart from the Cabinets
(Separate Installation)

1 - Hidden and Separate Installation are not applicable to the trolley.

Before Installing

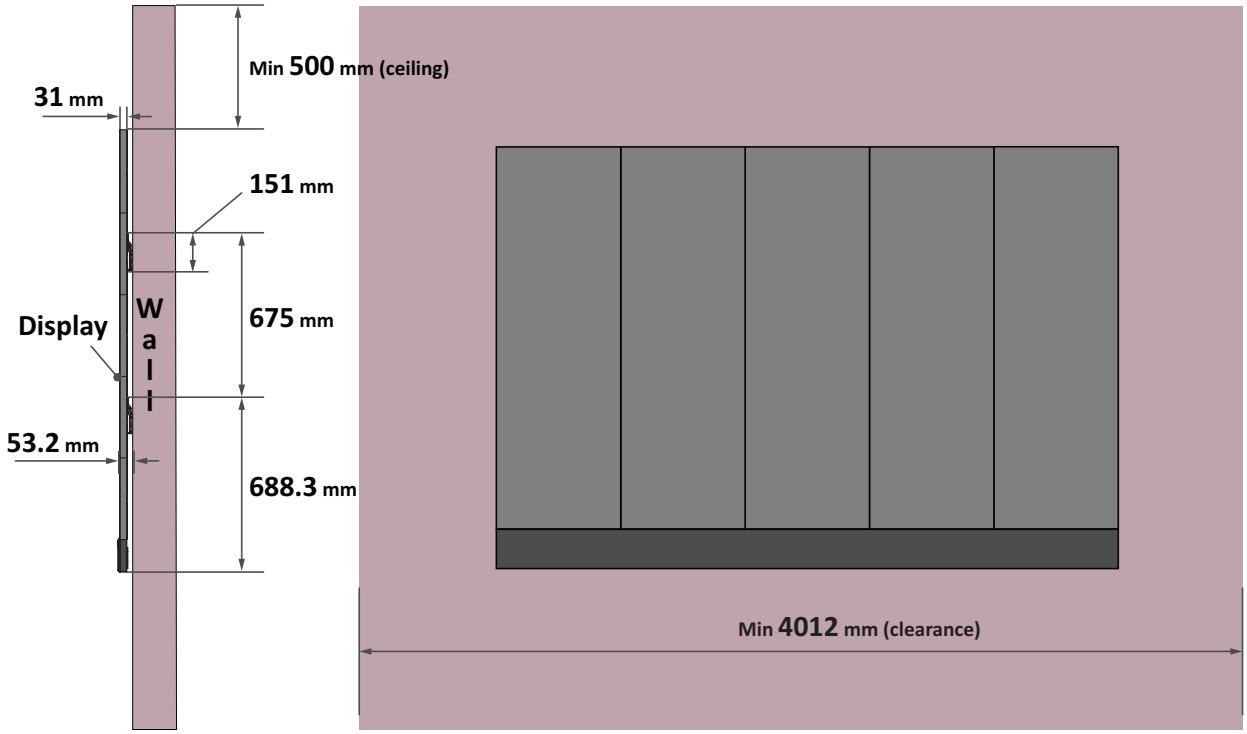
- Ensure there is no direct airflow from air conditioning or heating vents blowing on the display.
- Avoid installing the LED Display in places with high humidity.
- Due to high power usage, always use power cords specifically designed for this product.
- Wood may split if holes are not pre-drilled before installing the Wall Mount Brackets.
- Ensure that the wall can safely support 162 kg and the power outlet supplies enough voltage (max: 1740W; normal: 609W).
- Ensure the deviation of the wall surface is < 5 mm.
- Wear protective gear, such as gloves and protective shoes, when handling the LED Display.

Standard Installation

Wall Mounting

NOTE: The Wall Mount Brackets come in with two different lengths. You need two of each to mount the screen to the wall.

1. Ensure the wall area is an appropriate installation site.

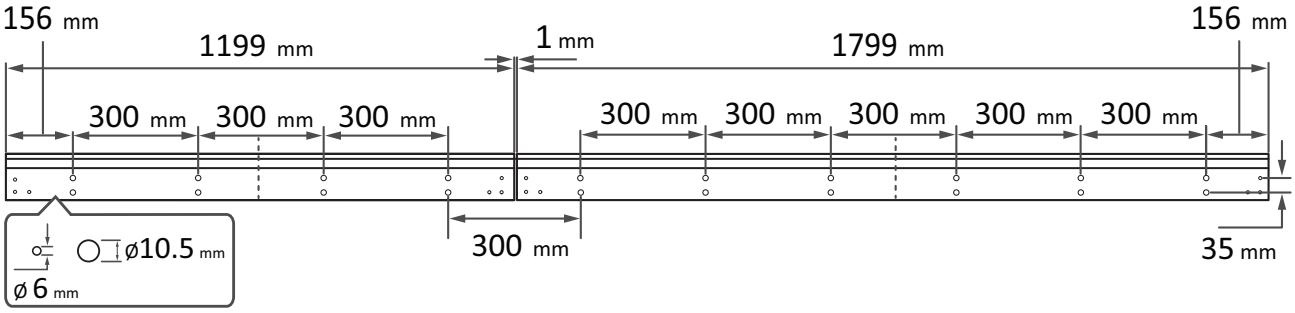


NOTE:

- You can also install the Upper Wall Mount Brackets, hang the screen, and then install the Lower Wall Mount Brackets for a more precise fit.
- Adjustment in floor clearance and ceiling height should be made according to the actual installation site.

2. Using the illustration as shown below as a guide, mark at least eight mounting holes and pre-drill them.

The Left (1199 mm) and Right (1799 mm) Wall Mount Brackets

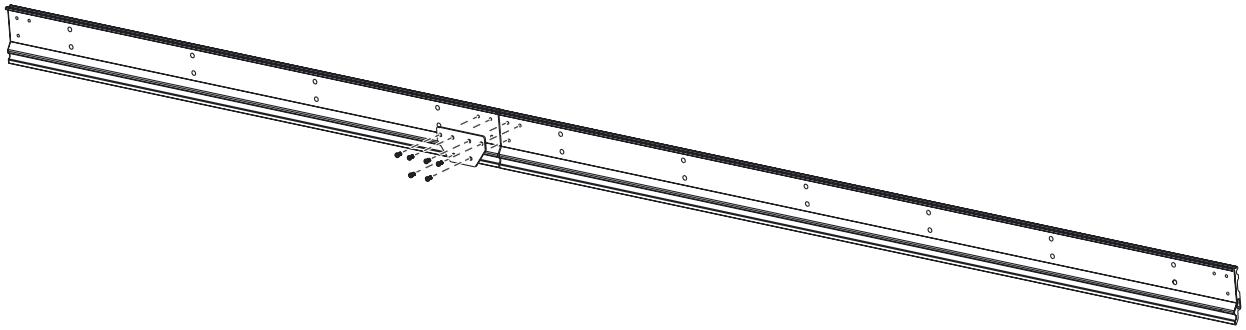


3. Install the Left Upper Wall Mount Bracket with the provided screws (M8 x 80 mm Expansion for masonry; wood screws for load bearing wood).

4. Repeat **Step 2**, ensuring the Right Upper Wall Mount Bracket is level with the Left Upper bracket.

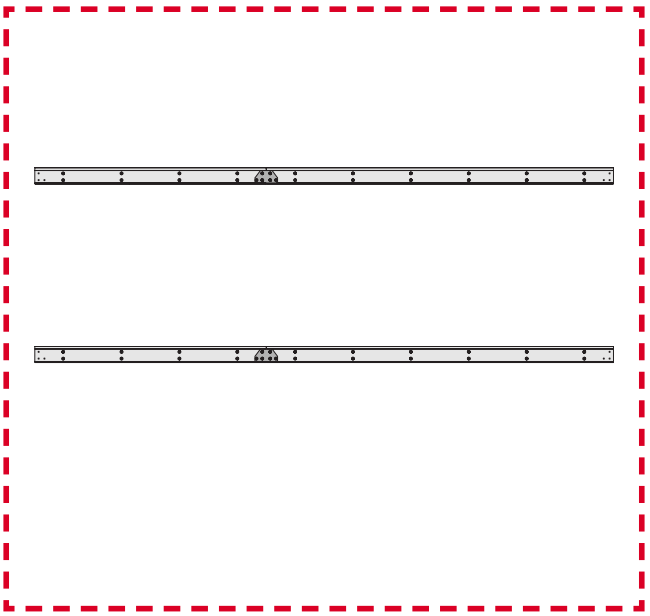
   NOTE: It is recommended to use a laser or torpedo level.

5. After mounting the Left and Right Upper Wall Mount Brackets to the wall, secure them with the Wall Mount Connector Plate using the six provided screws (PM6 x 10 mm).



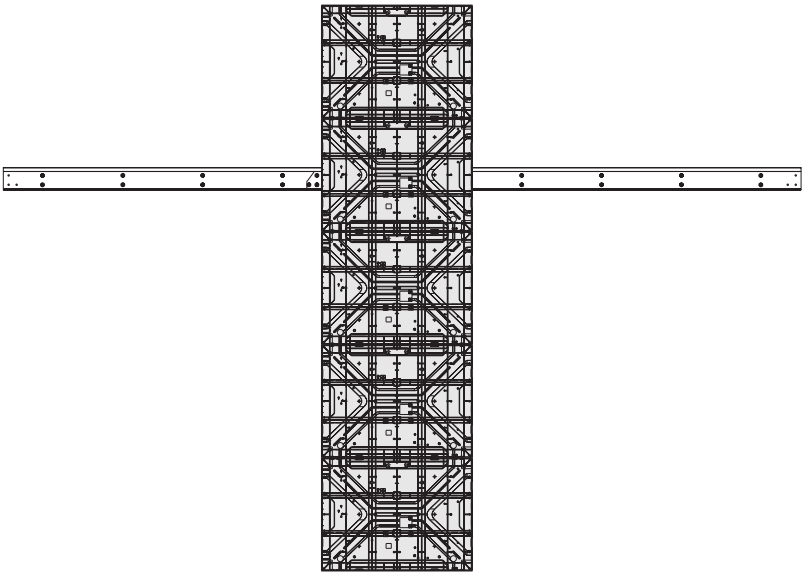
6. Install the Lower Wall Mount Brackets in the same manner as the Upper Wall Mount Brackets. The distance between the Upper and Lower Wall Mount Brackets is 675 mm.

7. After installing both Upper and Lower Wall Mount Brackets, the installation wall should look like:



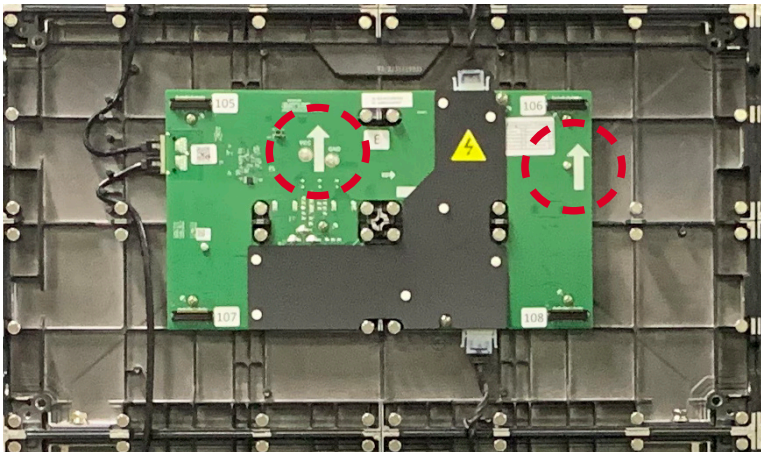
Installing the Cabinets

1. Carefully lift Cabinet “C” onto the center of the Upper Wall Mount Brackets.

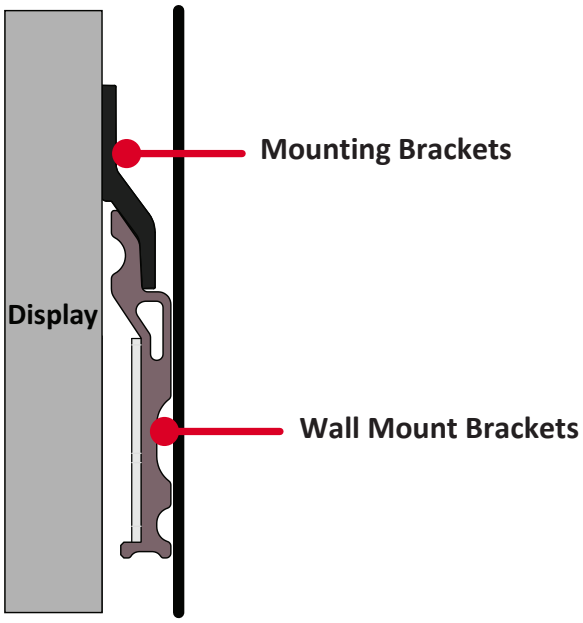


NOTE:

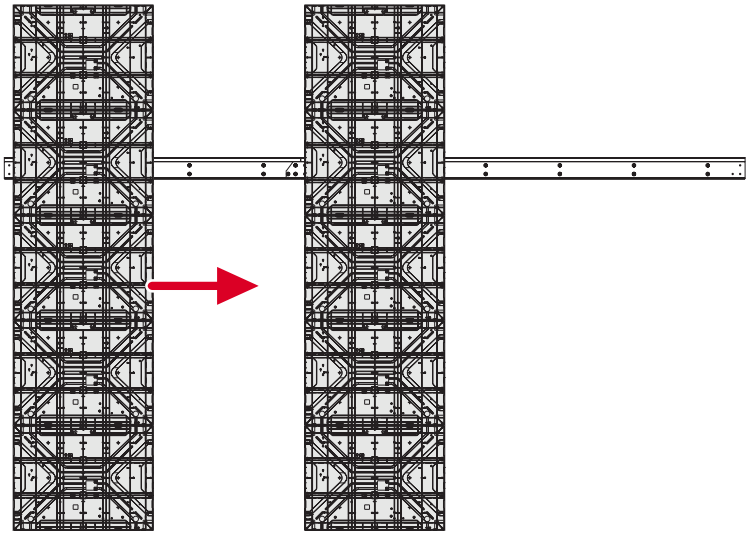
- One Cabinet weighs approximately 31 kg (68.34 lbs).
- You can identify Cabinets by the labels on the package.
- The arrow marks should be pointing up.



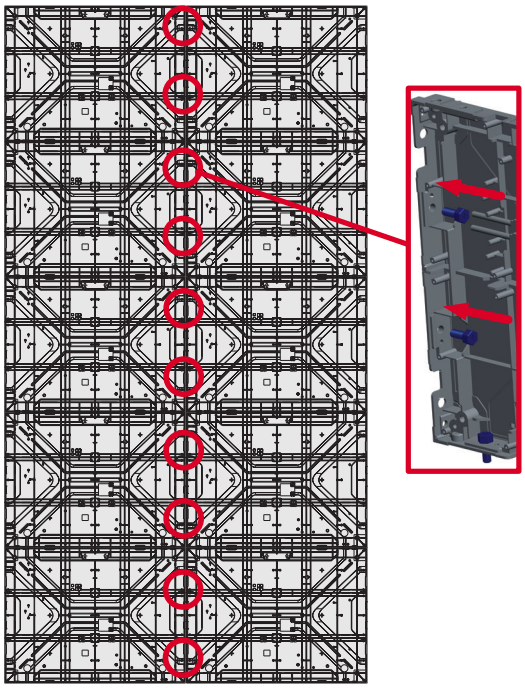
2. Ensure the Mounting Brackets sit securely on the Wall Mount Brackets as shown below.



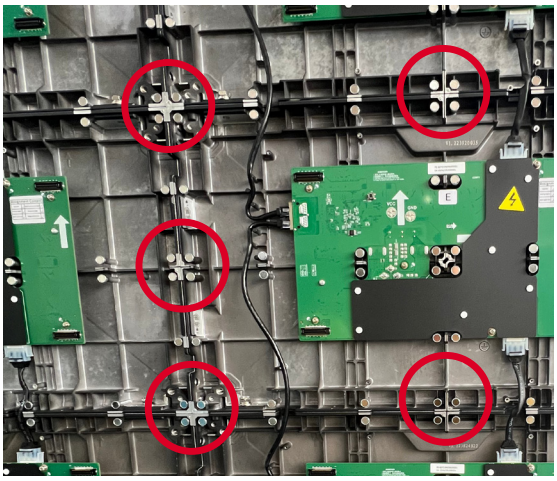
3. Lift Cabinet “B” and install it on the left side of Cabinet “C”. Install the two Cabinets together with the provided screws (M8 x 20 mm).



NOTE: There are ten screws between each Cabinet.

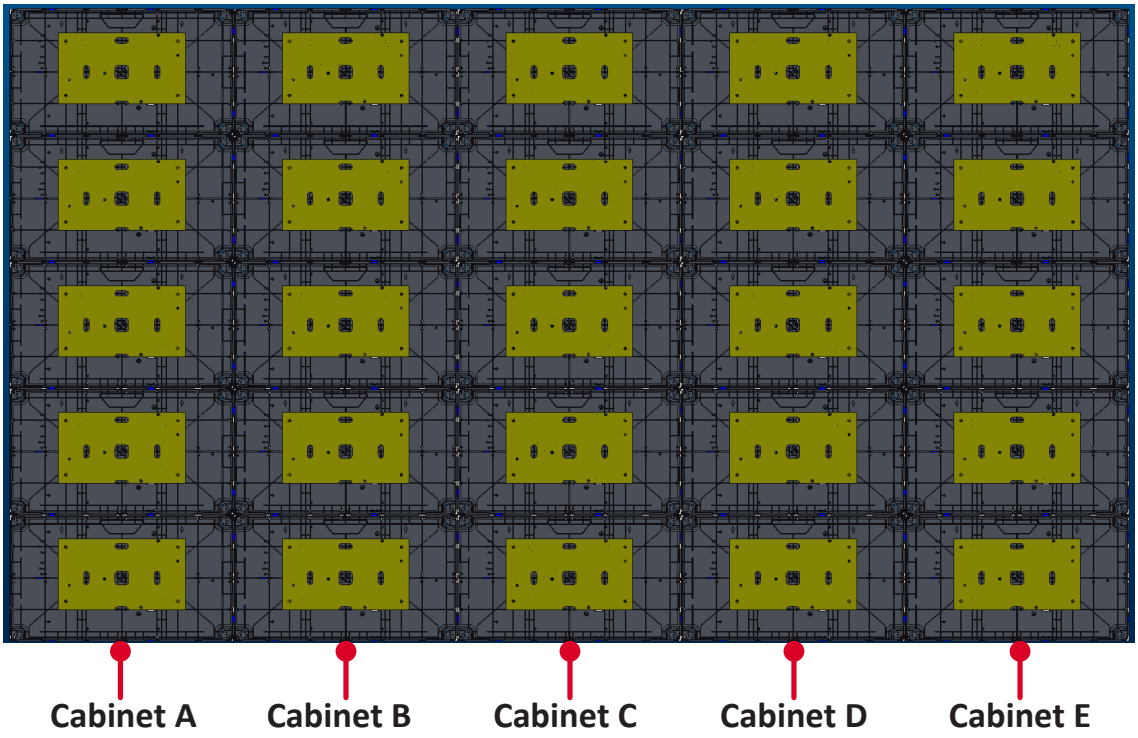


4. Check for unevenness of the Cabinets by rubbing the cross section with your fingers between each Cabinet. If the cross section is not aligned, loosen the M8 screws slightly and tap the Cabinets until the cross section is flat.



5. Place the remaining Cabinets onto the Wall Mount Brackets. Install from the center to the right and left sides of the Wall Mount Brackets.

NOTE: The installation sequence by Cabinet: C ➜ B ➜ D ➜ A ➜ E

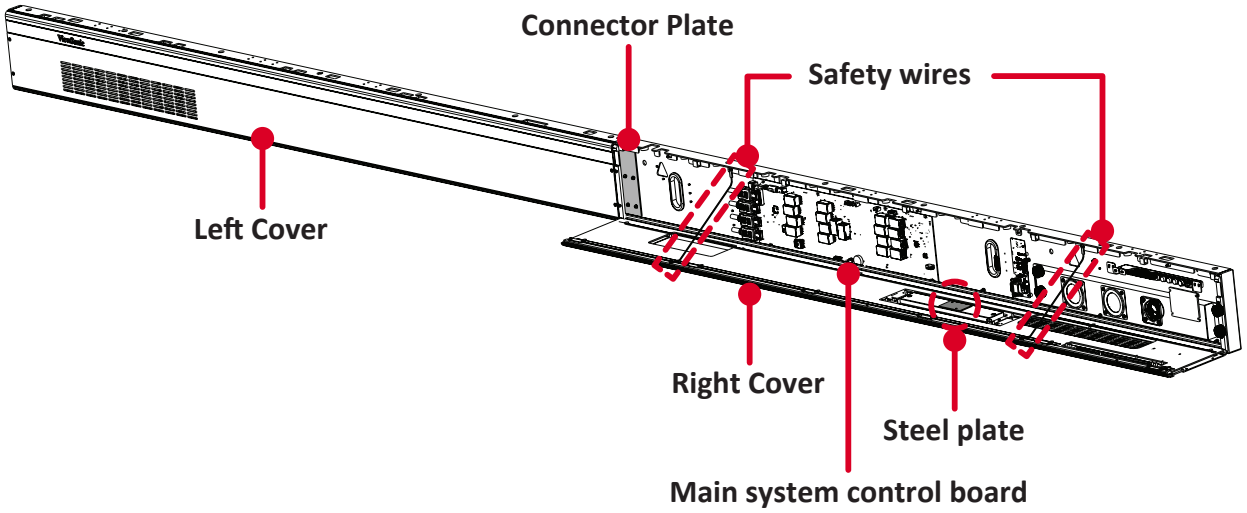


Connecting the System Control Box

NOTE: The left and right sides of the System Control Box are pre-installed with its Covers in the factory. The main system control board is on the right.

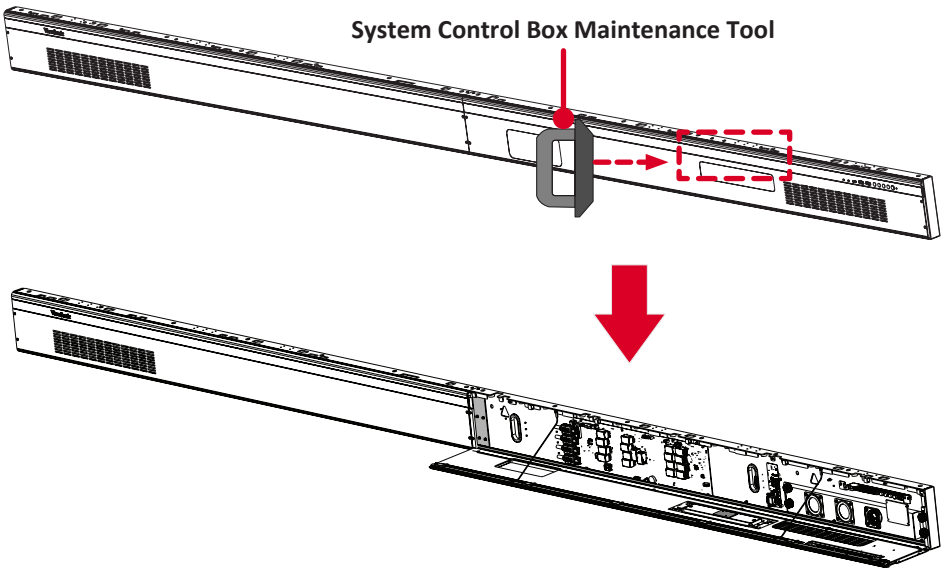
The safety wires are used to prevent the Right Cover from falling when accessing the System Control Box. Please ensure that the safety wires are never removed.

Use caution as the System Control Box panel is separated into two pieces with wires attached.

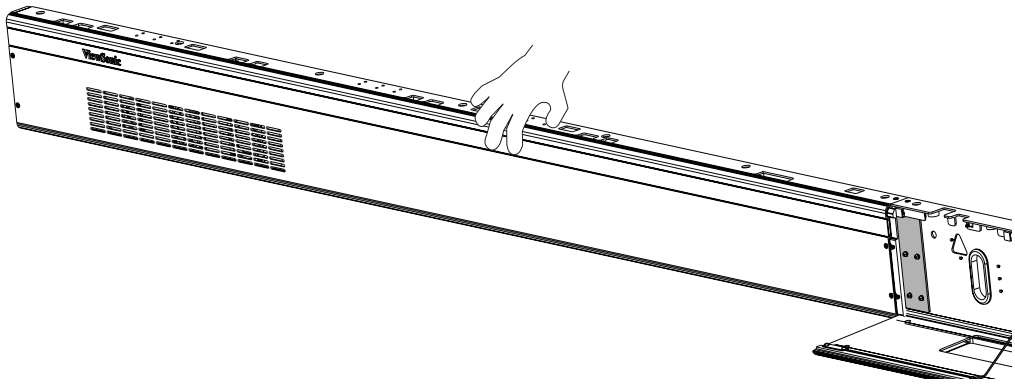


1. Carefully place the System Control Box on stable furniture that can safely support the System Control Box.
2. To open the Right Cover, slowly bring the supplied System Control Box Maintenance Tool near the surface of the Right Cover where the steel plate is located. Then, the Right Cover should detach from the System Control Box magnetically.

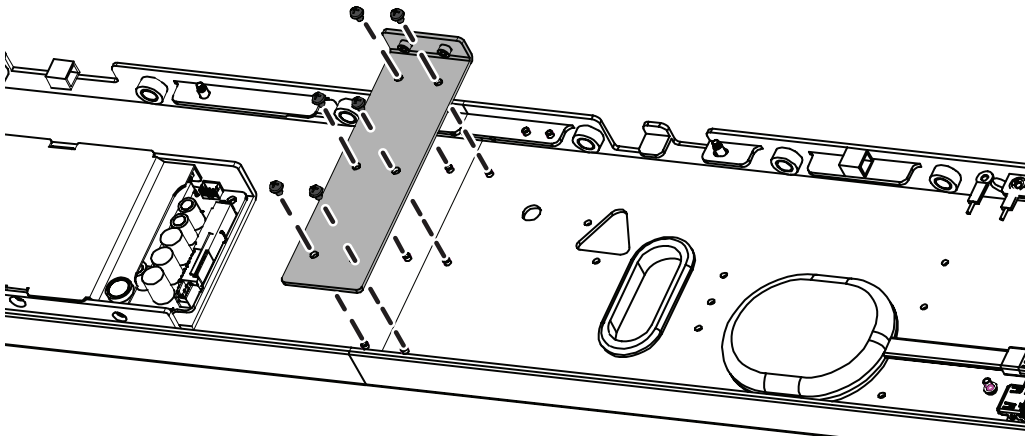
DO NOT try to remove or disconnect the safety wires. Please ensure that the safety wires are never removed.



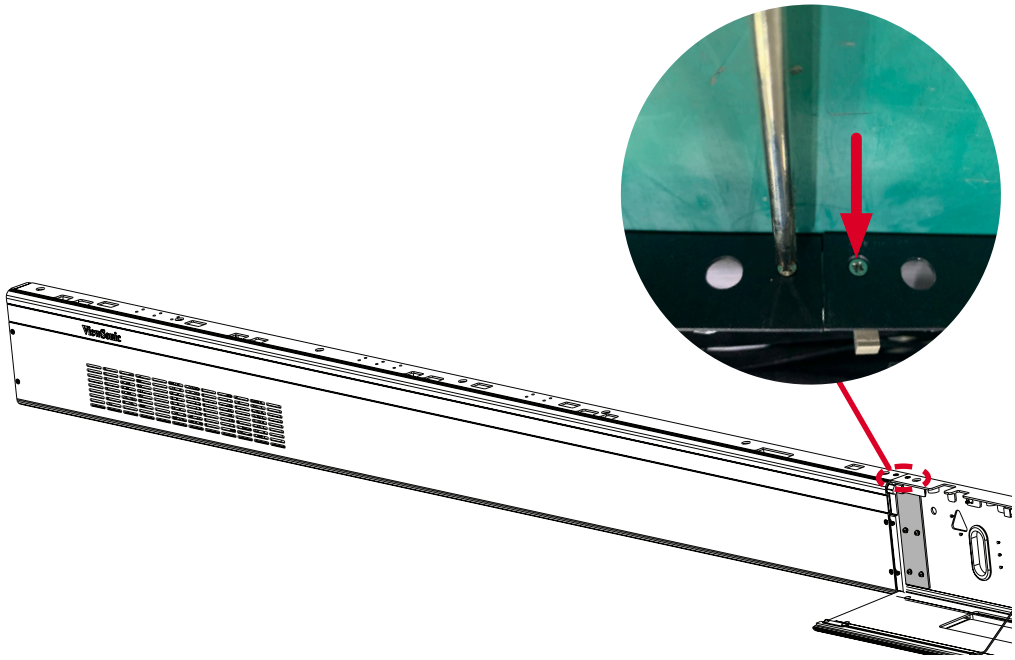
4. Remove the Left Cover by gripping the top edge of the Cover and pulling it toward you. The Left Cover should simply lift away.



5. Secure the System Control Box panel with the Connector Plate using the provided screws (M3 x 6 mm).

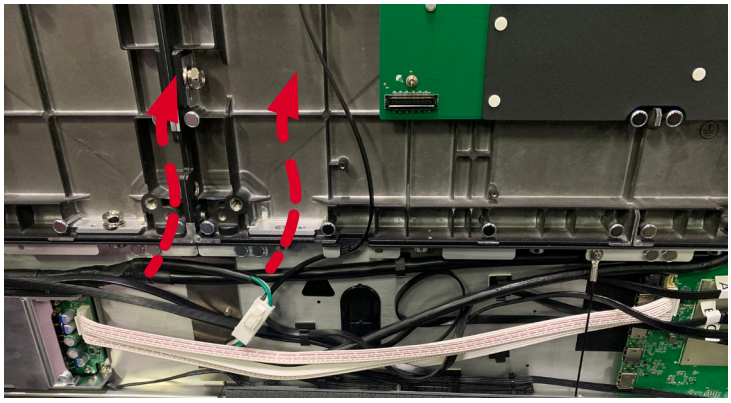


6. Further secure the Connector Plate with the two provided screws (M3 x 6 mm).



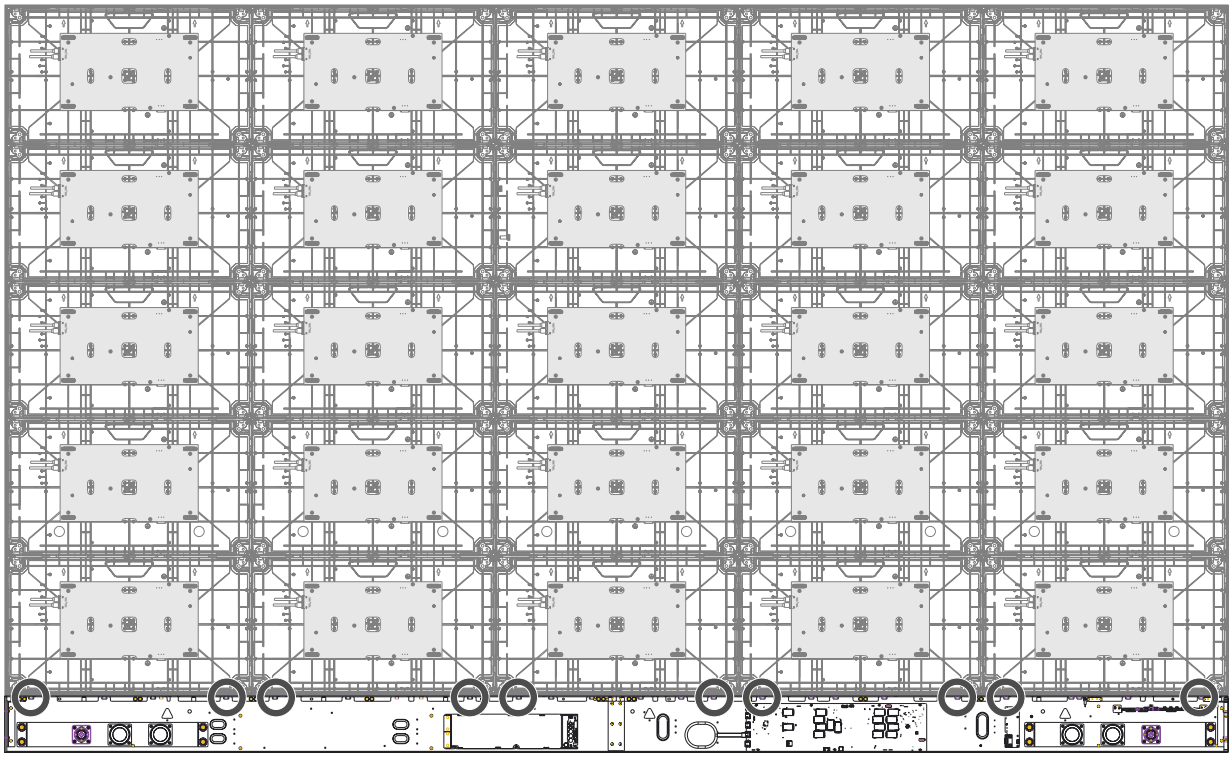
7. Align the holes of the Cabinets with the System Control Box to attach.

8. Carefully route the Power and Network Cables through the holes in each Cabinet.



9. Install the System Control Box to the bottom of the Cabinets with the provided screws (M8 x 20 mm).

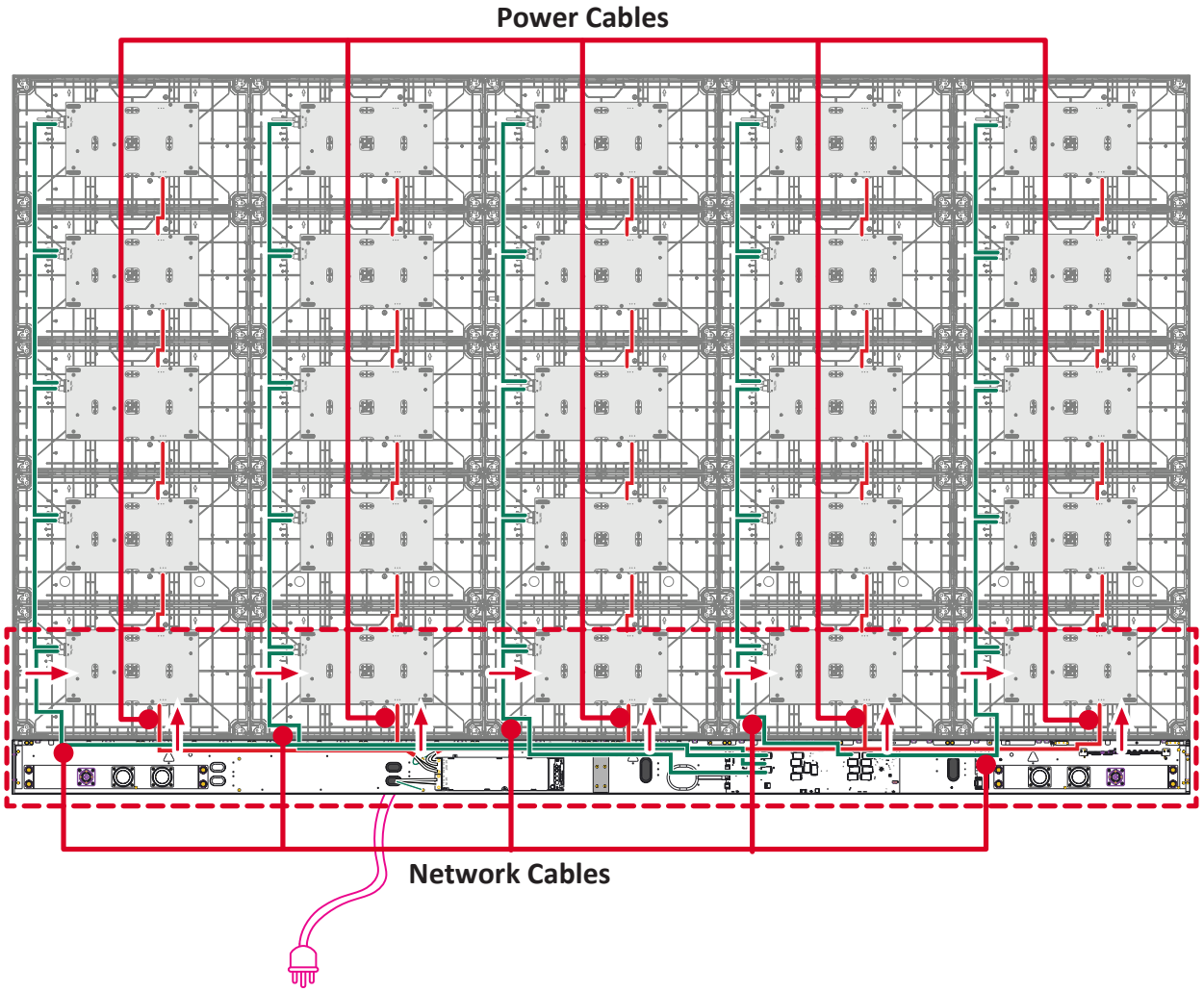
NOTE: There are ten threaded holes between the Cabinets and the System Control Box.



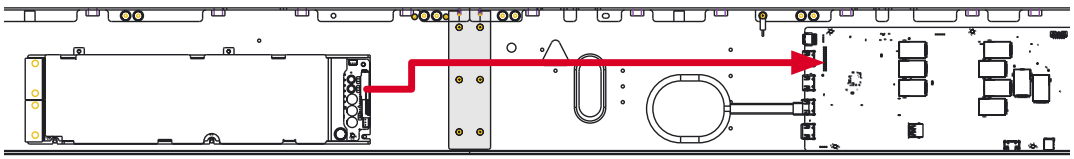
10. Connect the Power and Network Cables from the System Control Box to each Cabinet. Ensure to match the corresponding letters on the Cables to the Cabinets (A to A, B to B, C to C, and so on).

NOTE:

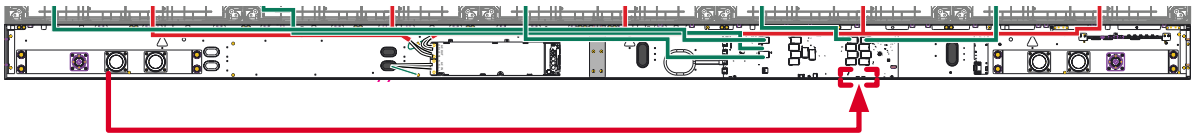
- Each Cabinet has one Power and one Network Cable to connect.
- Only the Cables at the lowest row of the Cabinets need to be connected.



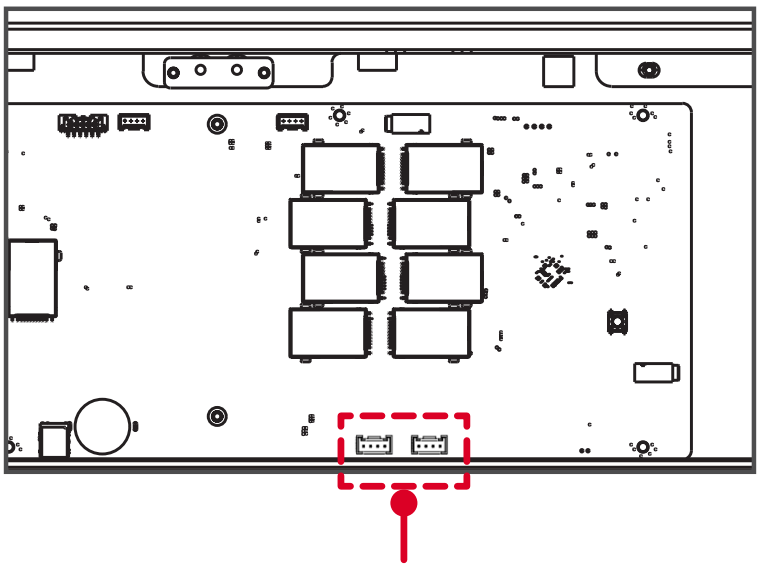
11. Connect the left system control board to the main system control board.



12. Connect the LED Display's left speaker to the Audio Out port of the system control board.

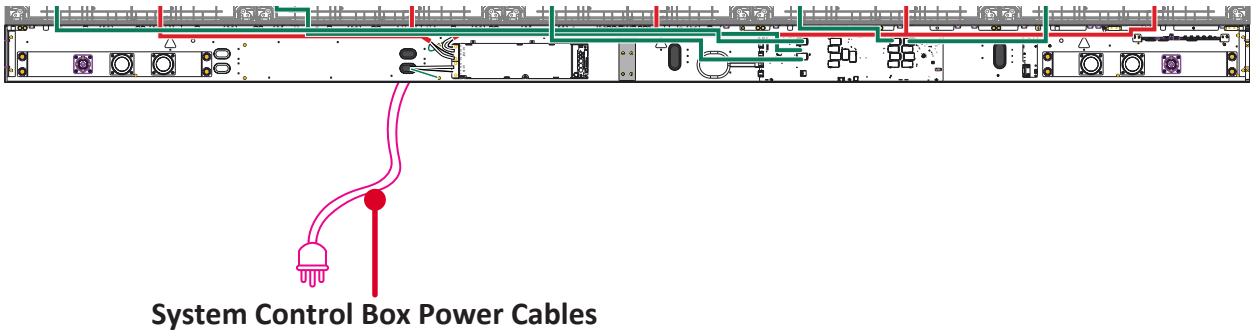


NOTE: Ensure the right speaker is properly connected to the other Audio Out port.



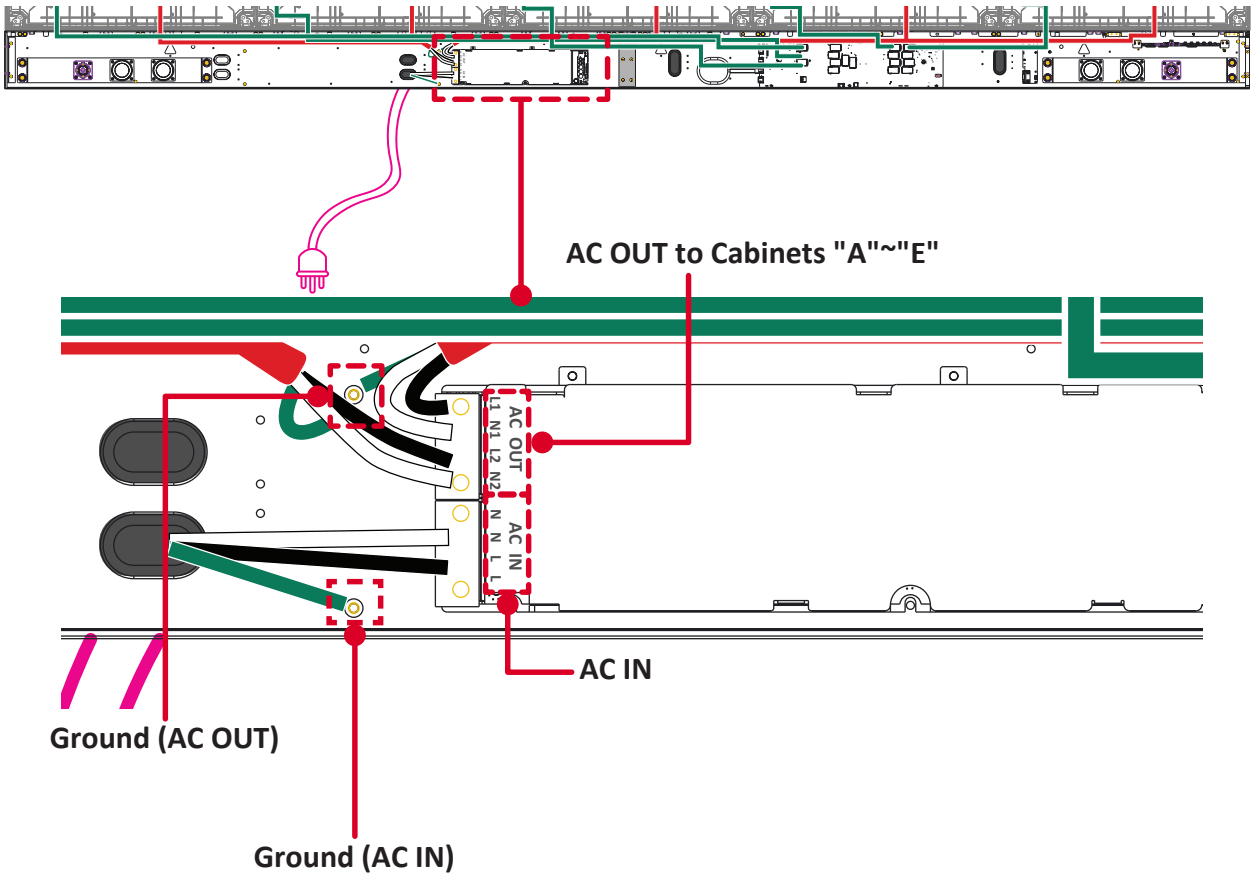
13. Ensure the AC unit of the System Control Box is properly connected.

DO NOT connect the System Control Box Power Cables at this time.



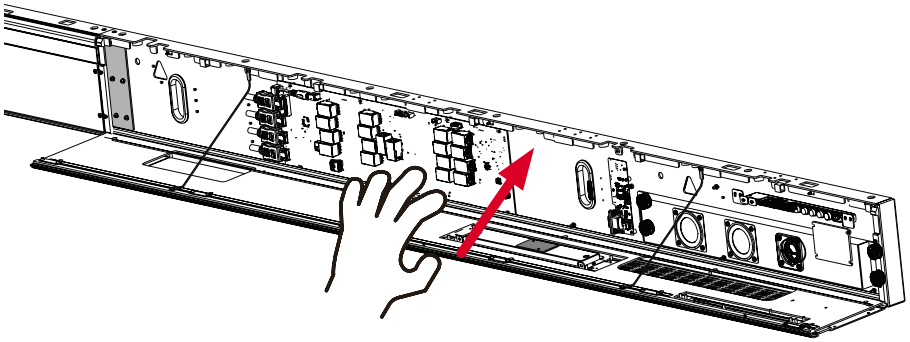
- The neutral wires (usually white/blue) are connected to the “N1”, “N2”, and “N” terminals.
- The hot wires (usually black/brown) are connected to the “L1”, “L2”, and “L” terminals.
- The input and output terminals are properly grounded (2 x AC OUT and 1 x AC IN, usually in green).

The meaning of wiring color may vary by country.



14. After connecting all Cables and wires, hold the top edge of the Right Cover toward the System Control Box to replace it. Once the Right Cover is replaced, it will be held in place magnetically.

NOTE: Ensure the Power Button cable is connected before securing the Right Cover.



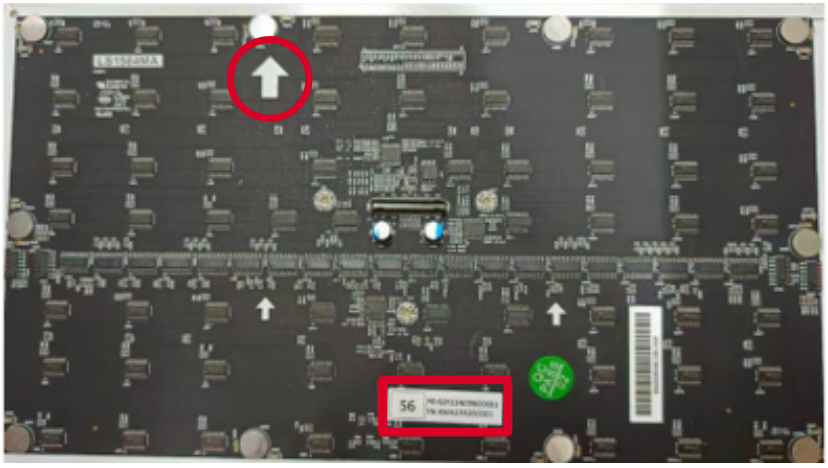
15. Replace the Left Cover by aligning it properly with the System Control Box; then the Left Cover should attach magnetically.

Installing the LED Modules

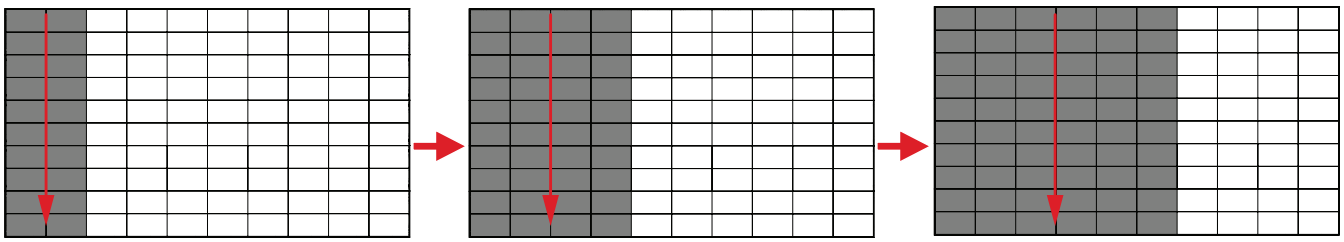
- Please wear Anti-Static Gloves before handling the LED Modules.
- To avoid direct contact with the LED Modules, please remove watches, rings, bracelets, or other metal objects.
- Use caution when installing the LED Modules.

1. Starting from the LED Module labeled “1” in the top left corner, align each LED Module with the Cabinet, then carefully press the Module into place.

NOTE: The arrow mark on the back of the LED Modules should be pointing up.



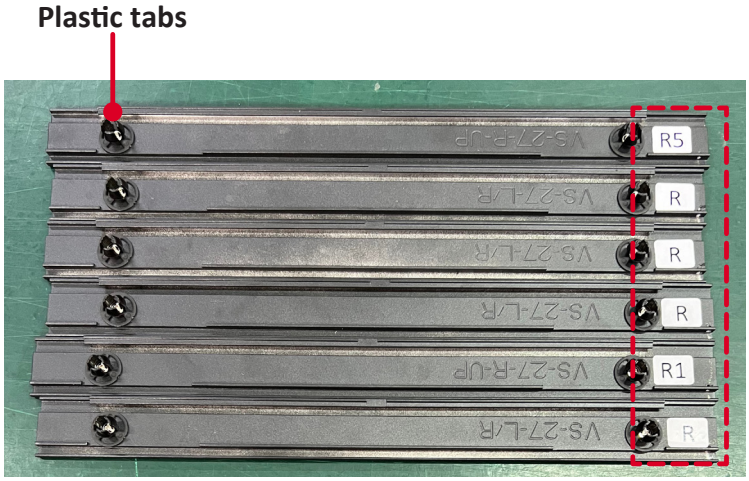
2. Attach the remaining LED Modules onto the Cabinets. Install from top left and move to bottom right, ensuring to match the corresponding numbers on the Module to the Cabinet.



NOTE: Before installing the LED Module, ensure that each Module is flush and that there is little to no gap between each. It may be necessary to gently tap the module to make it flush.

Installing the Screen Bezels

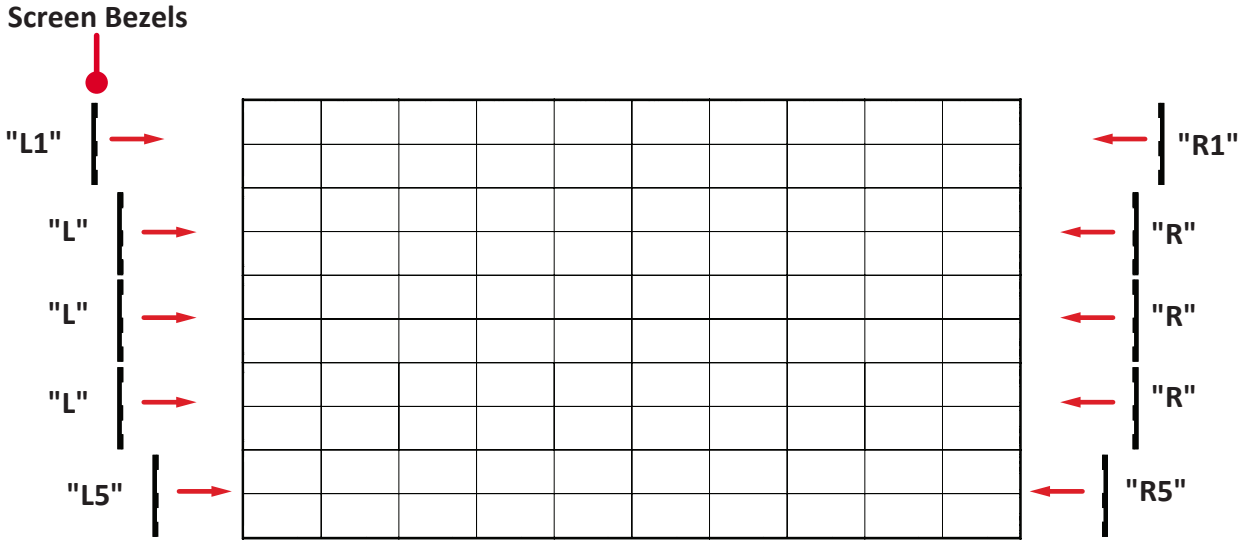
- The Screen Bezels' plastic tabs are pre-installed onto the Bezels. Ensure all plastic tabs are properly mounted before installing the Screen Bezels onto the screen.
- The label indicates the top of each Screen Bezel. To ensure the Bezels are installed in the correct position, please use the labels on the inside of the Bezels as a guide.



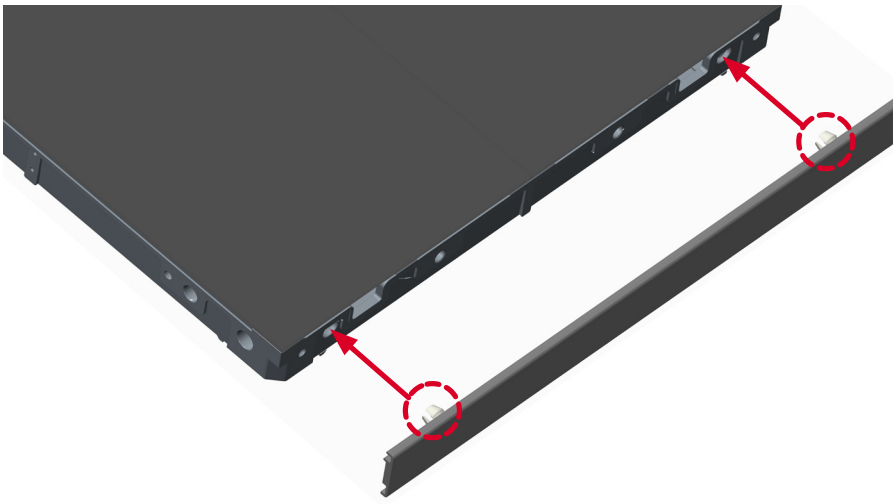
1. Place the Screen Bezels to the correct side of the screen to attach. Start from the left and move to the right.

NOTE:

- Ensure the label side of the Screen Bezel is facing the screen.
- Before installing the Screen Bezels, check the label of each Bezel as the label helps you know which side ("L" = left side & "R" = right side) to attach the Bezel.
- The illustration below shows the location where each Screen Bezel should be installed.



2. Align the plastic tabs of the Screen Bezel with the holes provided in the screen.



3. Press down on the Screen Bezel until you hear it click into place.

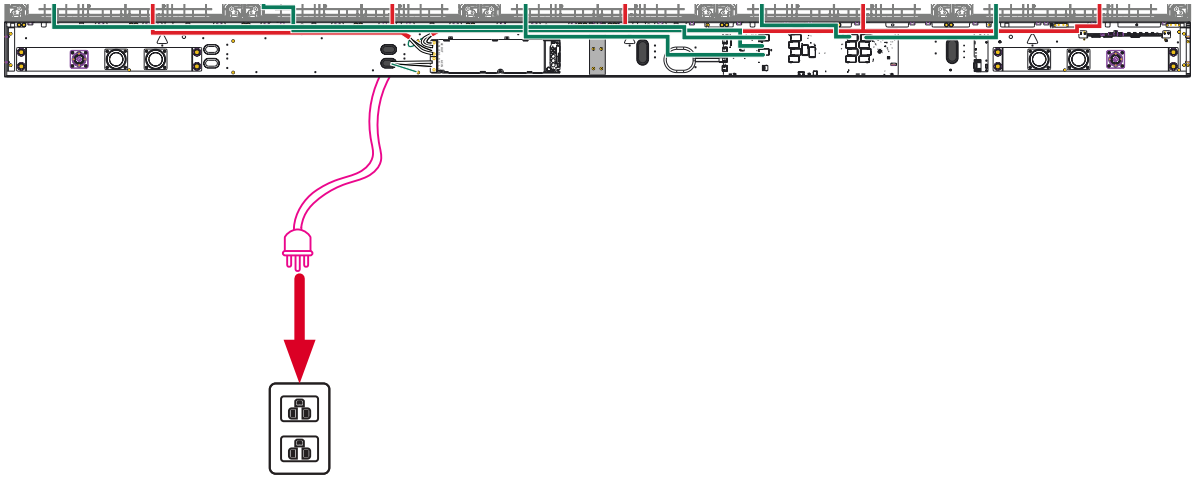
4. Place the remaining Screen Bezels onto the left and right sides of the screen.

NOTE: There are five Screen Bezels on either left or right side of the screen to install.

Turning On the LED Display

1. Make sure the System Control Box Power Cable is connected and plugged into a power outlet.

NOTE: When the System Control Box Power Cable is connected to a power outlet, the Power Indicator Light will be a steady red. This means the LED Display is in standby mode. Please refer to the User Guide for more details.



2. Your LED Display is now ready to power on.

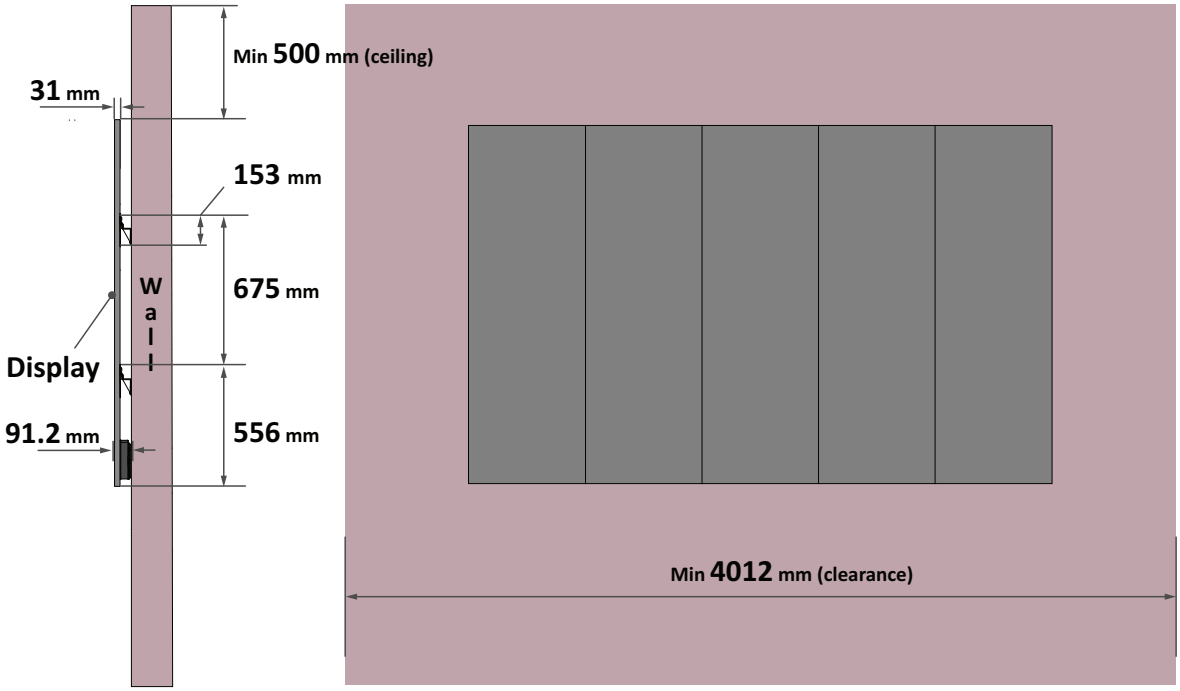
Hidden Installation

When the System Control Box is installed behind the Cabinets, this installation type requires a different set of Wall Mount Brackets. You also need the System Control Box Mount Brackets to attach the System Control Box to the rear of the Cabinets.

Wall Mounting

Four Wall Mount Brackets are used for mounting the screen to the wall.

1. Ensure the wall area is an appropriate installation site.

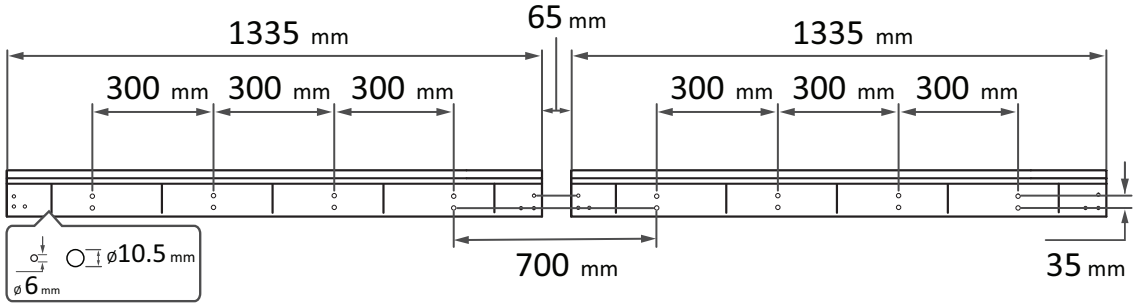


NOTE:

- You can also install the Upper Wall Mount Brackets, hang the screen, and then install the Lower Wall Mount Brackets for a more precise fit.
- Adjustment in floor clearance and ceiling height should be made according to the actual installation site.

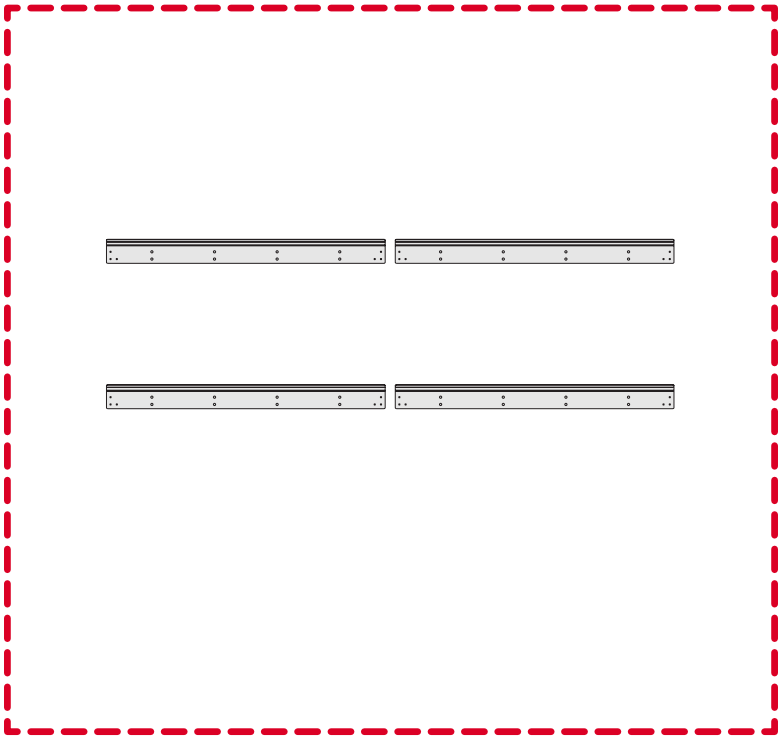
2. Using the illustration as shown below as a guide, mark at least eight mounting holes and pre-drill them.

Installing the Upper and Lower Wall Mount Brackets



3. Install the first Upper Wall Mount Bracket with the provided screws (M8 x 80 mm Expansion for masonry; wood screws for load bearing wood).
4. Repeat **Step 2**, ensuring the second Upper Wall Mount Bracket is level with the first Upper Bracket.

   NOTE: It is suggested to use a laser or torpedo level.
5. Install the Lower Wall Mount Brackets in the same manner as the Upper Wall Mount Brackets. The distance between the Upper and Lower Wall Mount Brackets is 675 mm.
6. After installing both Upper and Lower Wall Mount Brackets, the installation wall should look like:



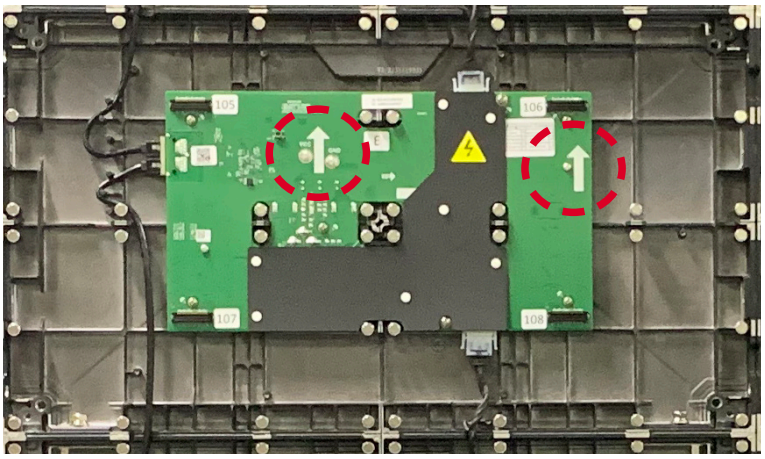
Installing the Cabinets

NOTE: When the System Control Box is installed behind the Cabinets, the Upper System Control Box Mount Bracket must be mounted to the Cabinets first.

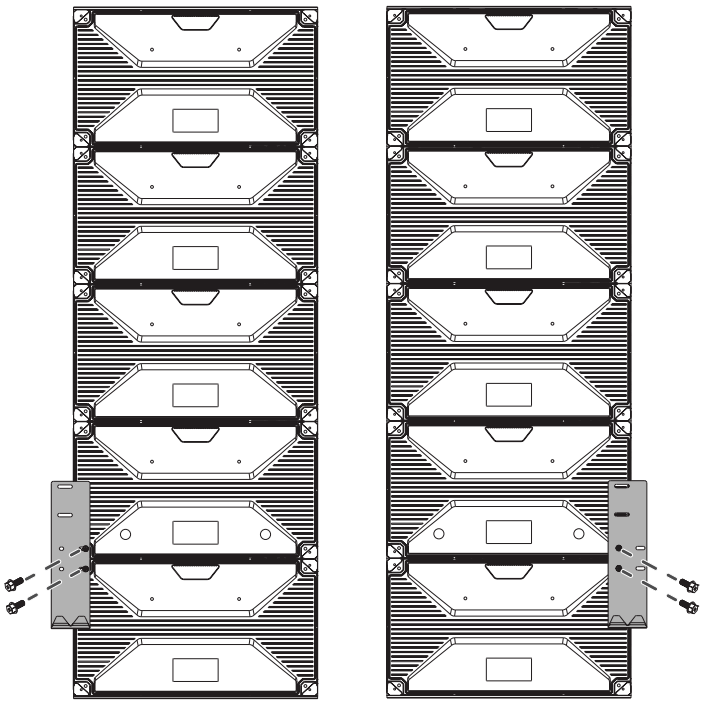
1. Place Cabinet “B” and Cabinet “D” face down on stable furniture that can safely support the two Cabinets.

NOTE:

- One Cabinet weighs around 31 kg (68.34 lbs).
- You can identify Cabinets by the labels on the package.
- The arrow marks should be pointing up.

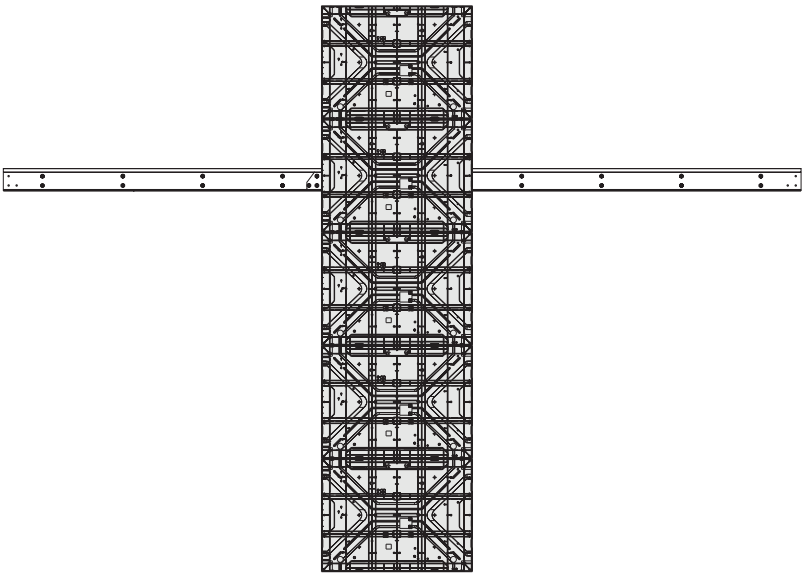


2. Install the Upper System Control Box Mount Brackets to the side of the two Cabinets “B” and “D” as shown below using the provided screws (M8 x 20 mm).

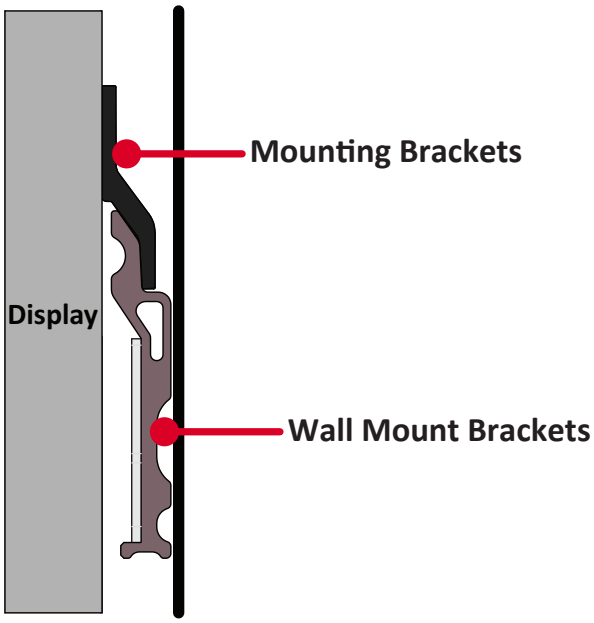


Rear View of Cabinet “B” (right) and Cabinet “D” (left)

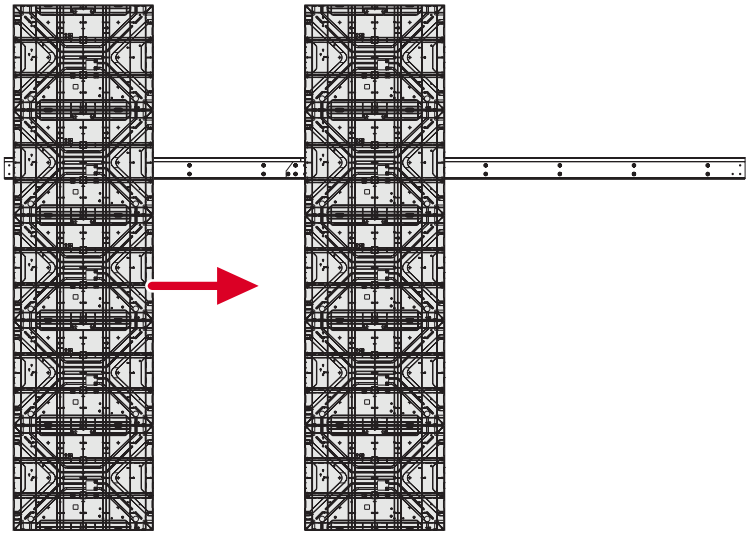
3. Carefully lift Cabinet “C” onto the center of the Upper Wall Mount Brackets.



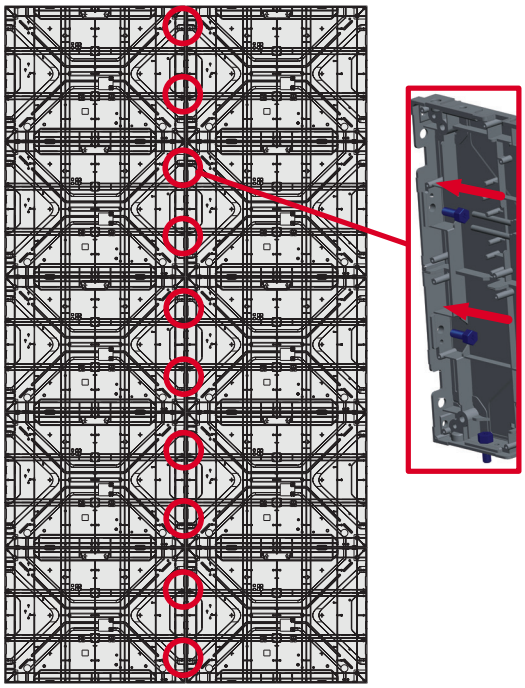
4. Ensure the Mounting Brackets sit securely on the Wall Mount Brackets as shown below.



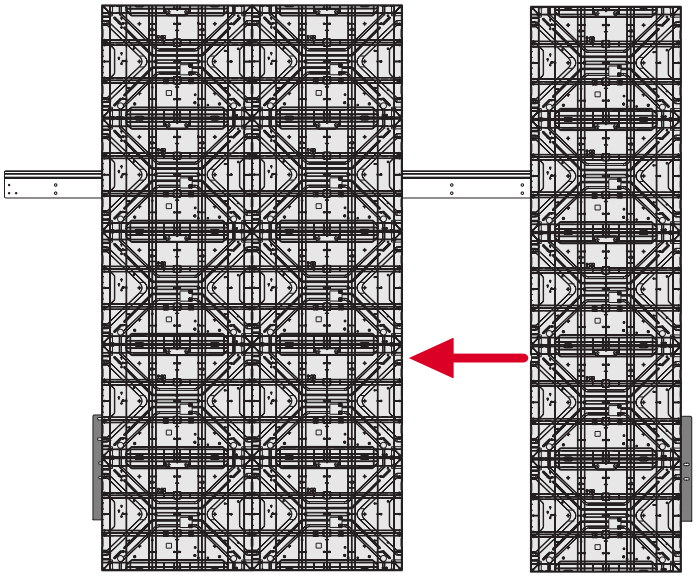
5. Install the Cabinet “B” to the left side of the Cabinet “C” with the provided screws (M8 x 20 mm).



NOTE: There are ten screws between each Cabinet.

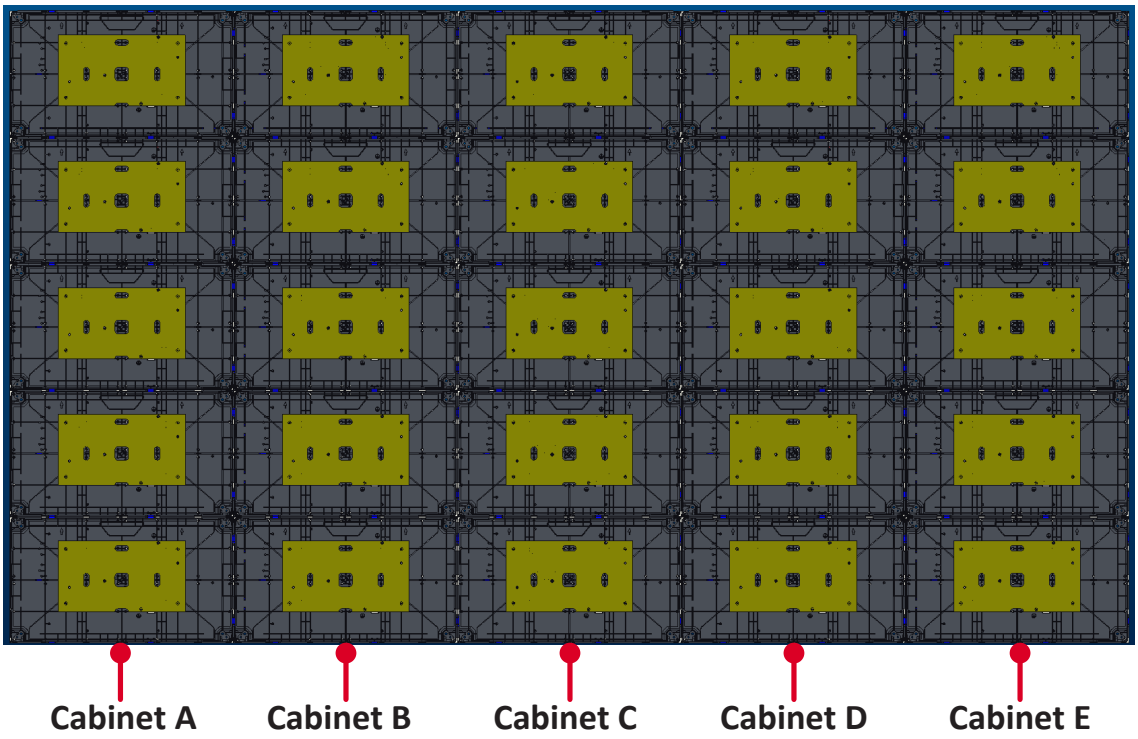


6. Install the Cabinet “D” to the right side of the Cabinet “C” with the provided screws (M8 x 20 mm).



7. Place the remaining Cabinets onto the Wall Mount Brackets. Install from the center to the right and left sides of the Wall Mount Brackets.

NOTE: The installation sequence by Cabinet: C ➜ B ➜ D ➜ A ➜ E



Extending the Power Cables

The Power Cables of the Cabinets must be extended first if the System Control Box is mounted behind the Cabinets (Hidden Installation).

NOTE: The Power Cables of the Cabinets are built in with the System Control Box.



Power Cable of Cabinets "A" and "B"



Power Cable of Cabinets "C", "D", and "E"

1. Disconnect the Power Cables of the Cabinets from the System Control Box.

It is recommended to take photos of the completed wiring in the left and main system control boards before removing the Cables.

2. Replace the pre-installed Cabinet Cable Extension with the longer Cabinet Cable Extension. Ensure to match the corresponding letter on the longer Cabinet Cable Extension to the Power Cable.

NOTE: Cabinets are labeled on both the Power Cables and Cabinet Cable Extensions.

3. Fully cover the joint with the supplied electrical tape, ensuring to wrap it with at least 25 mm for better protection.



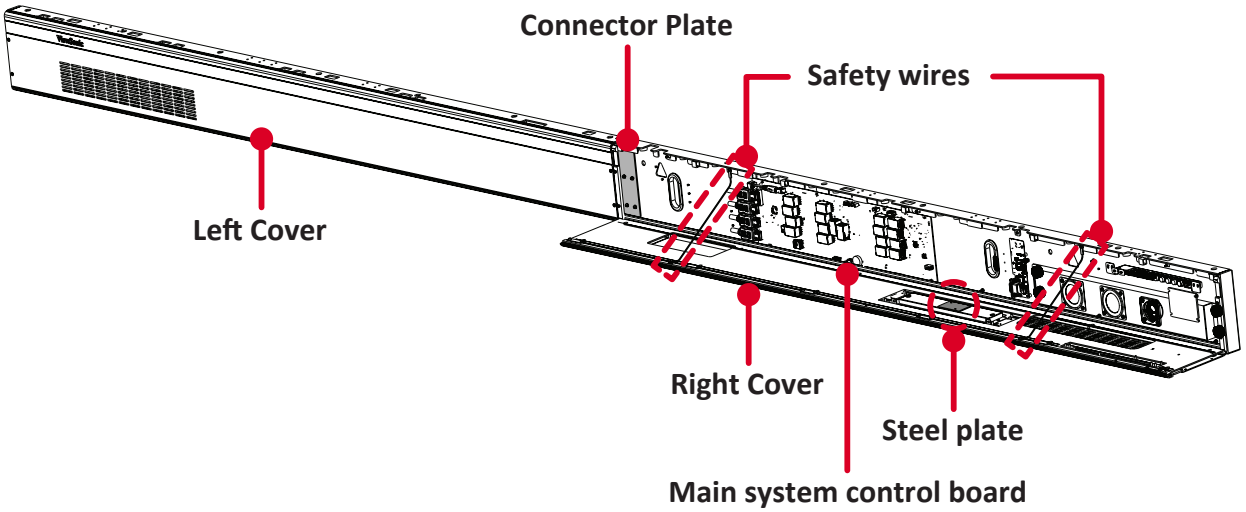
4. Repeat **Step 2~3** for the other Cabinet Cable Extensions.

NOTE: There are five Cabinet Cable Extensions to connect.

Connecting the System Control Box

NOTE: The left and right sides of the System Control Box are pre-installed with its Covers in the factory. The main system control board is on the right.

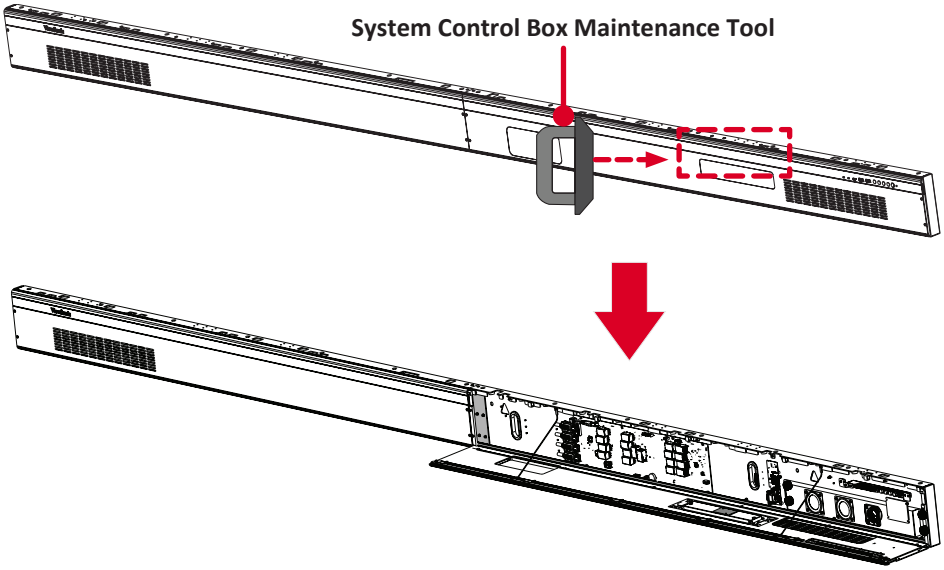
- The safety wires are used to prevent the Right Cover from falling when accessing the System Control Box. Please ensure that the safety wires are never removed.
- Use caution as the System Control Box panel is separated into two pieces with wires attached.
- Before installing the System Control Box, the Power Cables of the Cabinets must be extended first. You also need the longer Network Cables supplied in the case for this installation type.



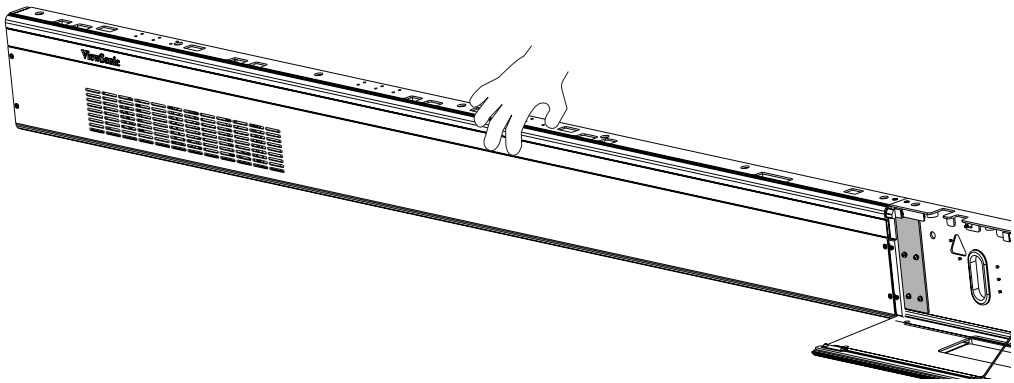
1. Carefully place the System Control Box on stable furniture that can safely support the System Control Box.

2. To open the Right Cover, slowly bring the supplied System Control Box Maintenance Tool near the surface of the Right Cover where the steel plate is located. Then, the Right Cover should detach from the System Control Box magnetically.

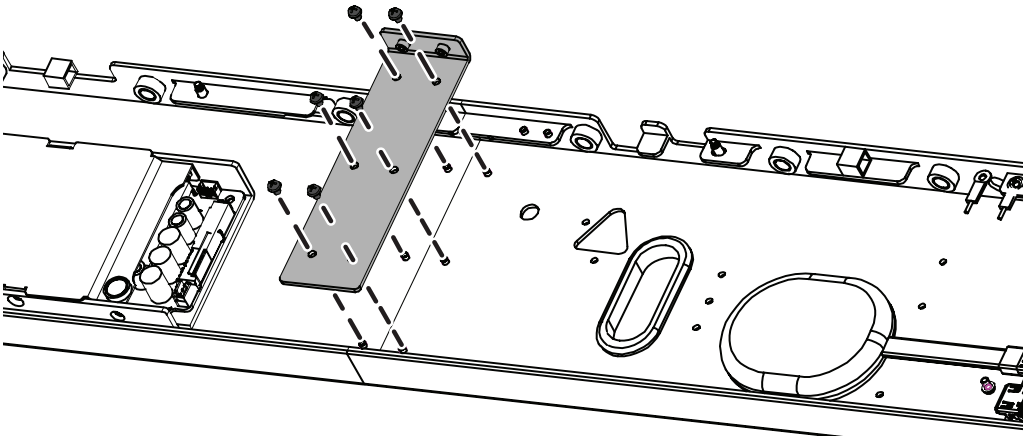
DO NOT try to remove or disconnect the safety wires. Please ensure that the safety wires are never removed.



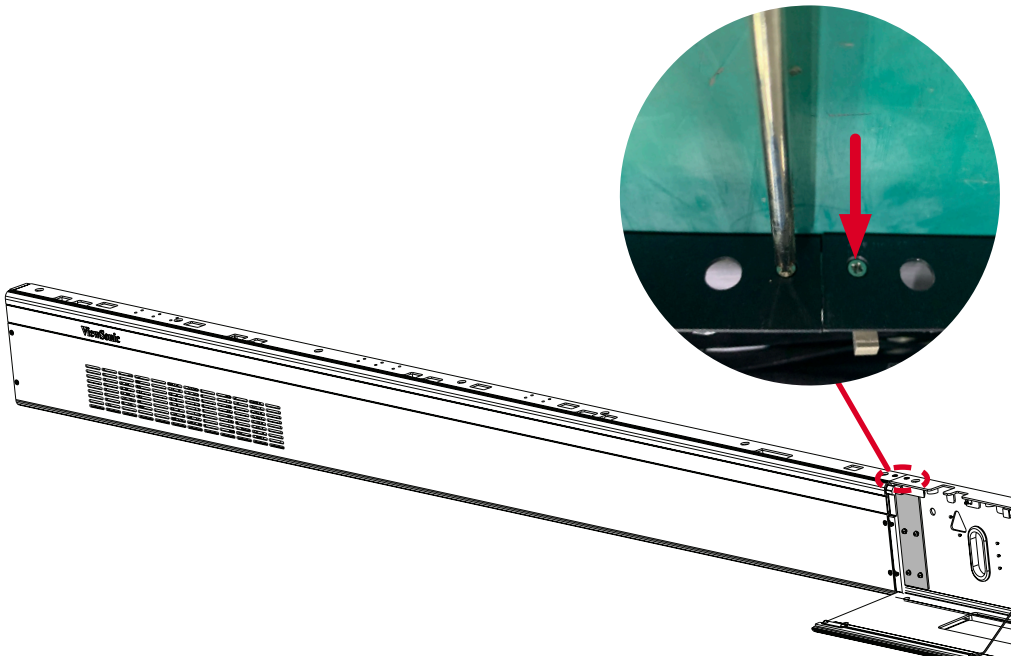
3. Remove the Left Cover by gripping the top edge of the Cover and pulling it toward you. The Left Cover should simply lift away.



4. Secure the System Control Box panel with the Connector Plate using the provided screws (M3 x 6 mm).

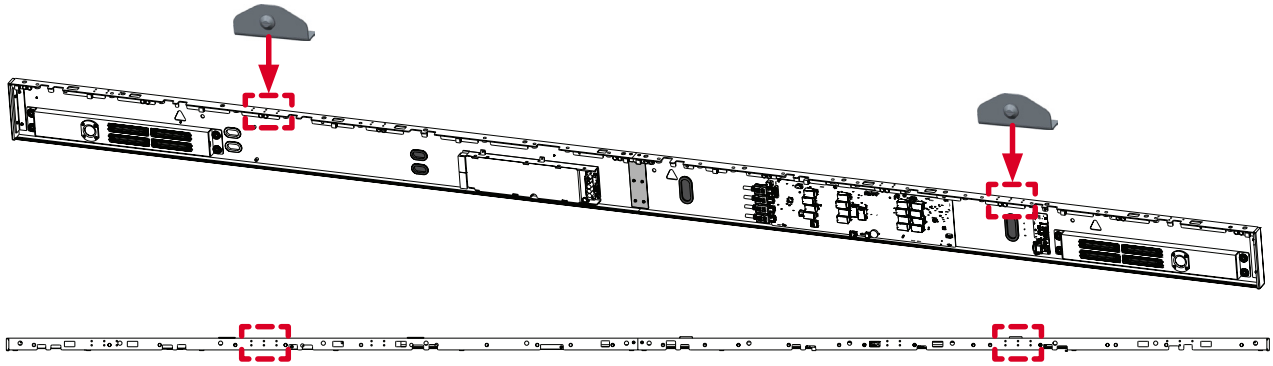


5. Further secure the Connector Plate with the two provided screws (M3 x 6 mm).



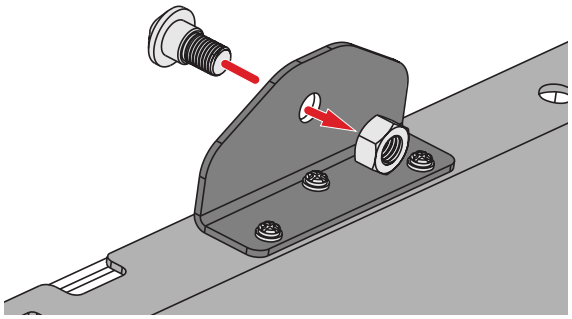
DO NOT try to remove or disconnect the safety wires. Please ensure that the safety wires are never removed.

6. Install the short side of the Lower System Control Box Mount Bracket onto the top of the System Control Box with the provided screws (M3 x 6 mm).



Installing the Lower System Control Box Mount Brackets onto the System Control Box (Front and Top Views)

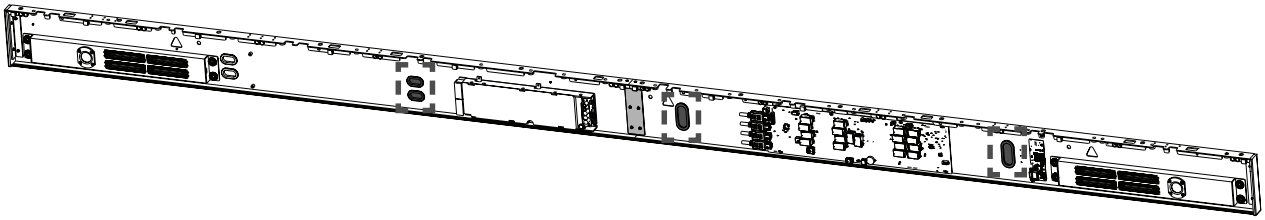
7. Install the provided screw (M8 x 16 mm) on the Lower System Control Box Mount Bracket. Thread the provided M8 nut onto the screw and fully tighten the nut.

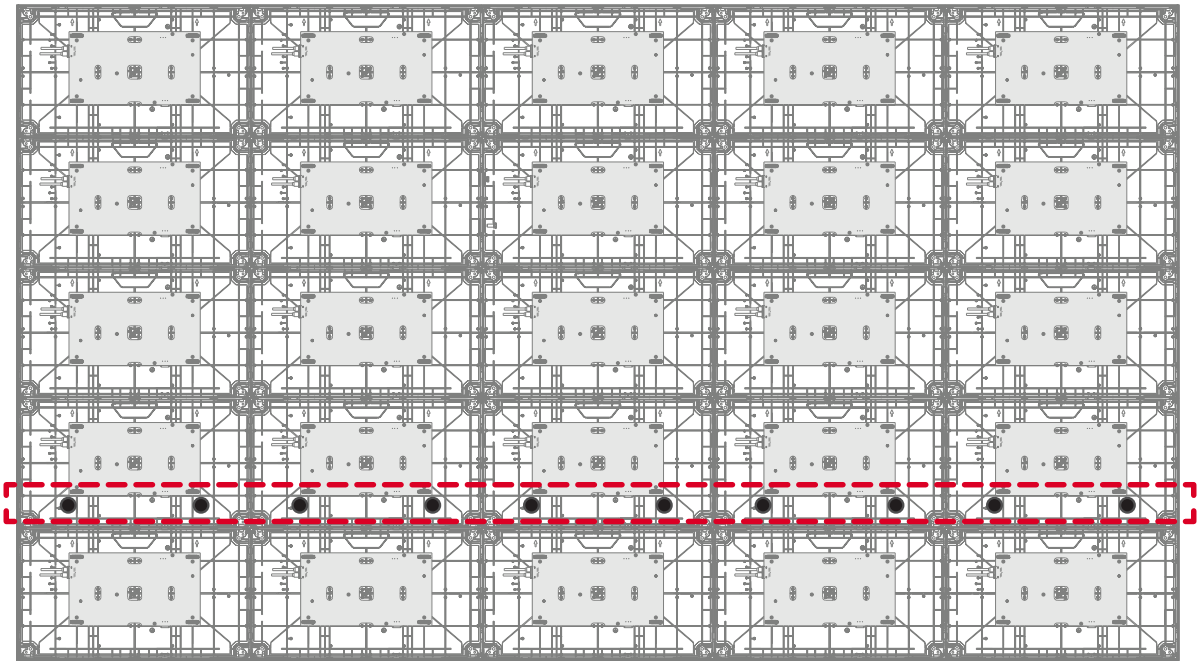


Installing the provided screw and nut to the Brackets (Rear View)

8. Repeat **Step 6~7** for the other Lower System Control Box Bracket.

9. The rubber hole plugs installed on both the System Control Box and Cabinets are used to protect the Cables from rubbing against any pointed edges. Use a knife to cut the hole to size along the cross.





10. Remove the pre-installed Power and Network Cables of the Cabinets from the System Control Box.

NOTE:

- There are five Power and five Network Cables to remove.
- It is recommended to take photos of the completed wiring in the left and main system control boards before removing the Cables.

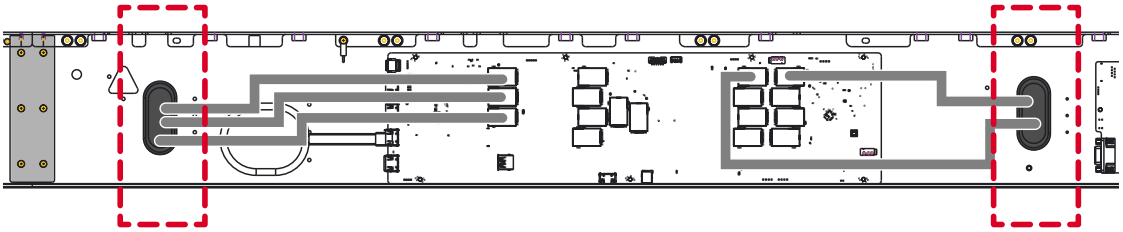
11. After removing the pre-installed Power an Network Cables of the Cabinets, connect one end of the longer Network Cable to the network port that was disconnected from the System Control Box in **Step 10**.

NOTE:

- There are five Network Cables to connect.
- Ensure to match the corresponding letters on the Cables to the network ports of the System Control Box (A to A, B to B, C to C, and so on).

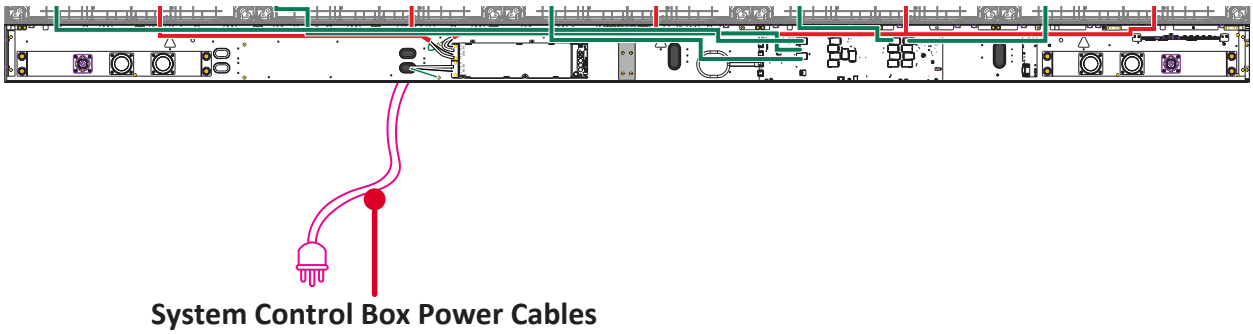
12. Carefully thread the five Network Cables through the hole provided in the System Control Box to the rear. Avoid sharp bends in the Cables.

NOTE: The rubber hole plugs must always be placed in the holes.



13. After threading the Network Cables, please follow the diagram below to connect the extended Power Cables to the AC unit of the System Control Box.

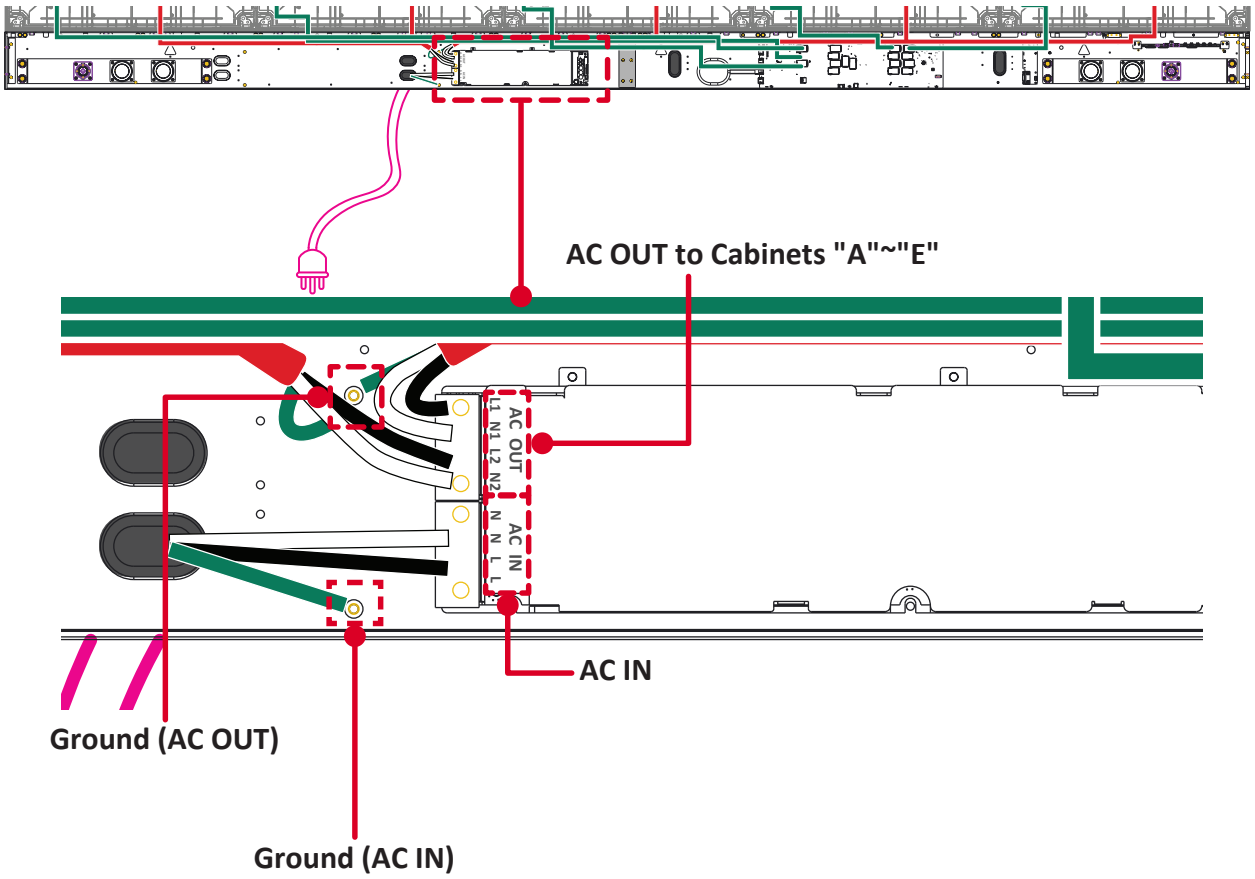
DO NOT connect the System Control Box Power Cable at this time.



- Connect the neutral wires (usually white/blue) to the “N1” and “N2” terminals.
- Connect the hot wires (usually black/brown) to the “L1” and “L2” terminals.
- Connect the ground wires (usually in green) to the ground terminals.

The meaning of wiring color may vary by country.

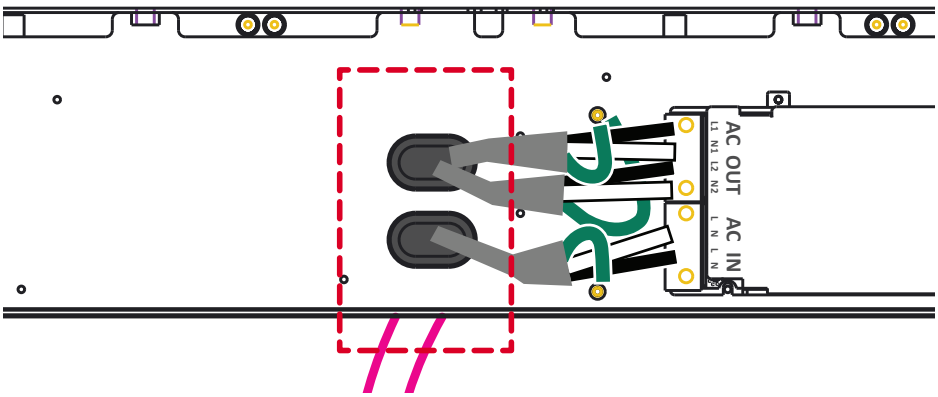
Use the provided wrench to tighten the neutral, hot, and ground conductors in the terminals properly.



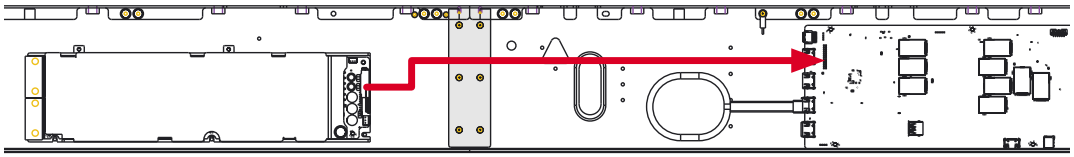
14. Thread the Power Cables of the Cabinets through the hole provided in the System Control Box to the rear. Avoid sharp bends in the Cables.

NOTE:

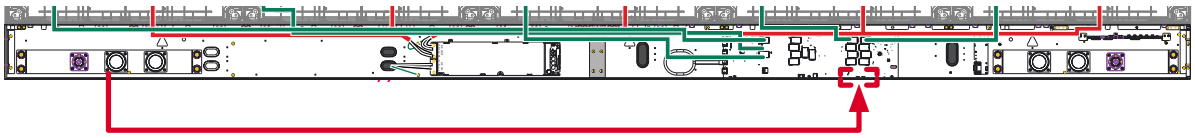
- There are two Power Cables to thread.
- The rubber hole plugs must always be placed in the holes.
- Before threading the Cables through, ensure that the output and input terminals (2 x AC OUT and 1 x AC IN) are properly grounded, and that the wire colors/labels are matched with the marked terminals. Each wire is screwed firmly to its corresponding terminal as well.



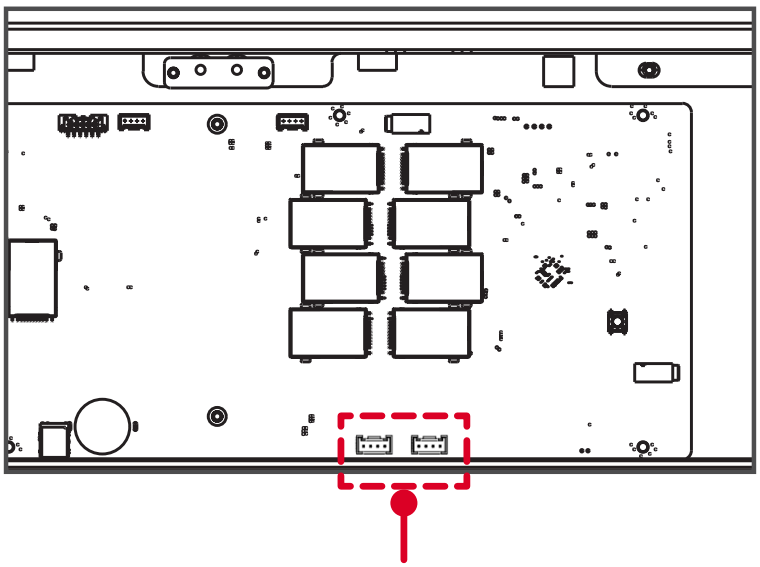
15. Connect the left system control board to the main system control board.



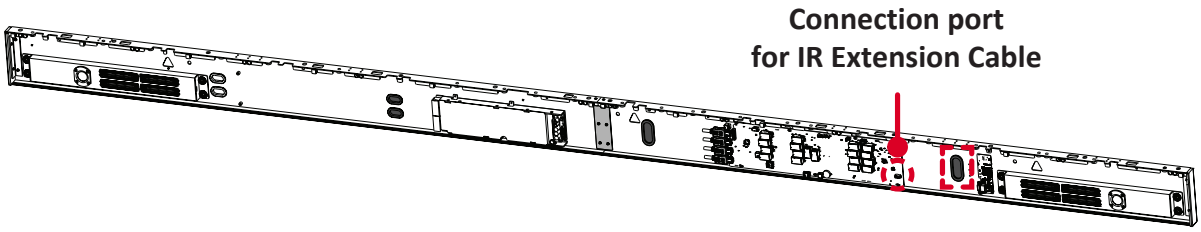
16. Connect the LED Display's left speaker to the Audio Out port of the system control board.



NOTE: Ensure the right speaker is properly connected to the other Audio Out port.

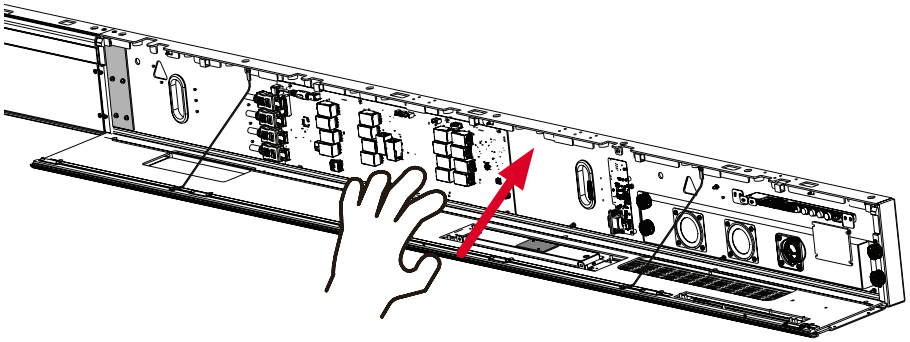


NOTE: After the IR Extension Cable is connected, route it through the adjacent cable hole as highlighted below to the rear.



17. After connecting all Cables and wires, hold the top edge of the Right Cover toward the System Control Box to replace it. Once the Right Cover is replaced, it will be held in place magnetically.

NOTE: Ensure the Power Button cable is connected before securing the Right Cover.

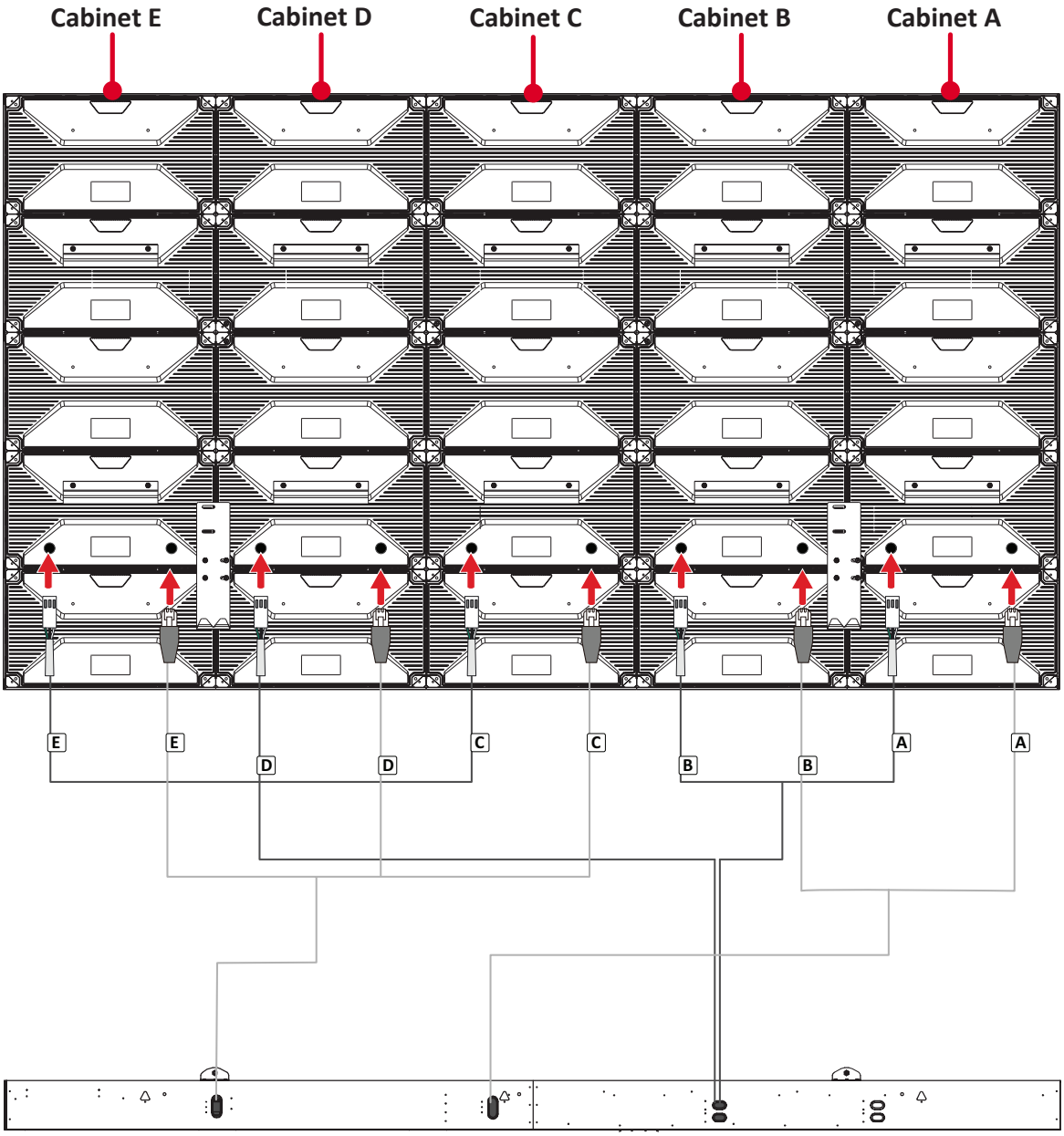


18. Replace the Left Cover by aligning it properly with the System Control Box; then the Left Cover should attach magnetically.

NOTE: Please ensure there are no sharp bends in the Cables and wires.

19. Align the Lower System Control Box Mount Brackets with the Upper Mount Brackets to attach.

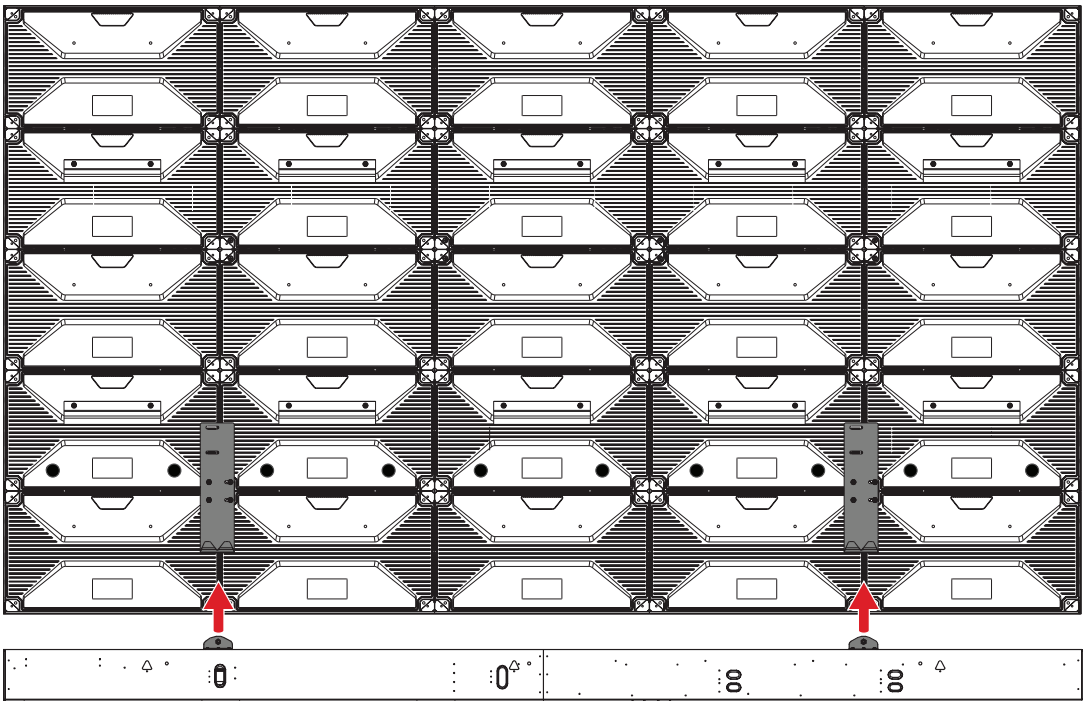
20. Thread the Power and Network Cables through the holes provided in the Cabinets to the front. Ensure to match the corresponding letters on the Cables to the Cabinets (A to A, B to B, C to C, and so on).



Threading the Power and Network Cables from behind (Rear View)

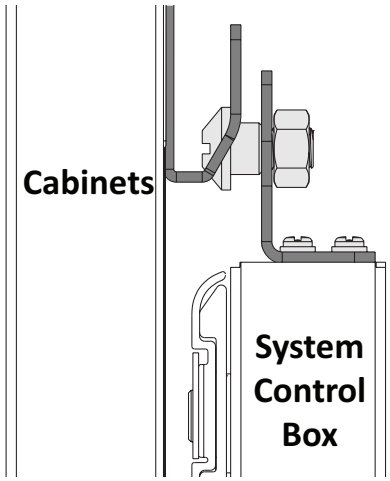
21. Carefully place the Lower System Control Box Mount Brackets onto the Upper System Control Box Mount Brackets.

NOTE: To avoid sharp bends in the Cables, please pull them into the Cabinets and manage the Cables there.



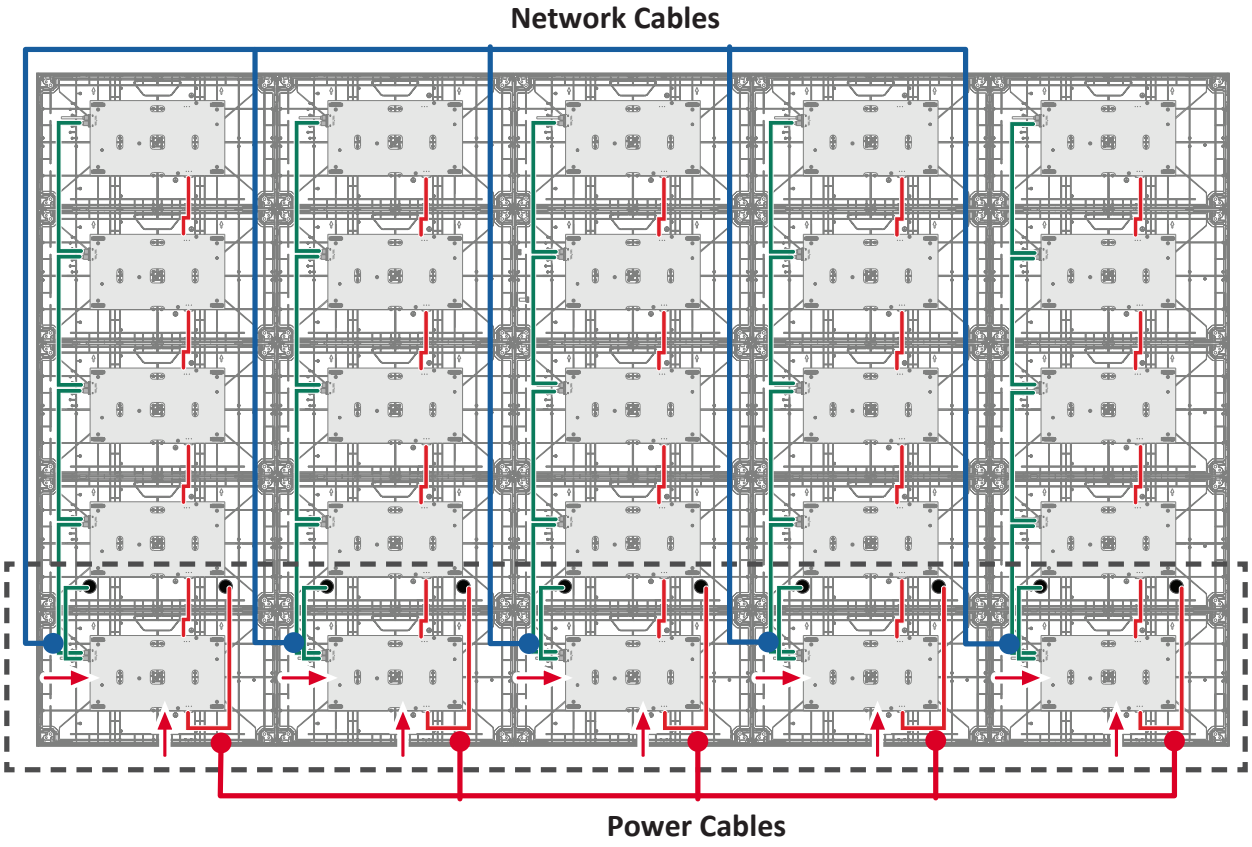
Placing the Lower System Control Box Mount Bracket onto the Upper (Rear View)

22. Ensure the Lower System Control Box Mount Brackets sit securely on the Upper.

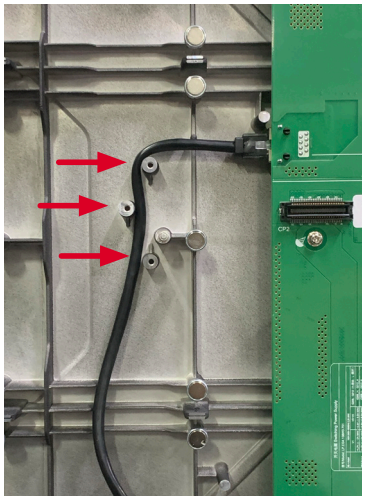


23. Connect the connector of the extended Power Cable to the power port of the Cabinet. Then, connect the other end of the Network Cable to the network port of the Cabinet. Ensure to match the corresponding letters on the Cables to the Cabinets (A to A, B to B, C to C, and so on).

NOTE: Each Cabinet has one Power and one Network Cable to connect.



24. Route the Power and Network Cables around the rods provided in the Cabinets and secure the Cables to the rods with the Cable Zip Tie and screw (PM3 x 10 mm). Leave a little slack for later adjustments if needed.

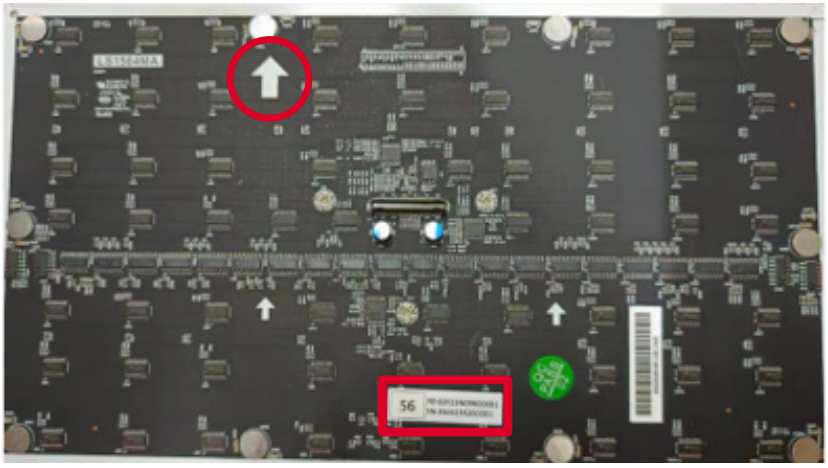


Installing the LED Modules

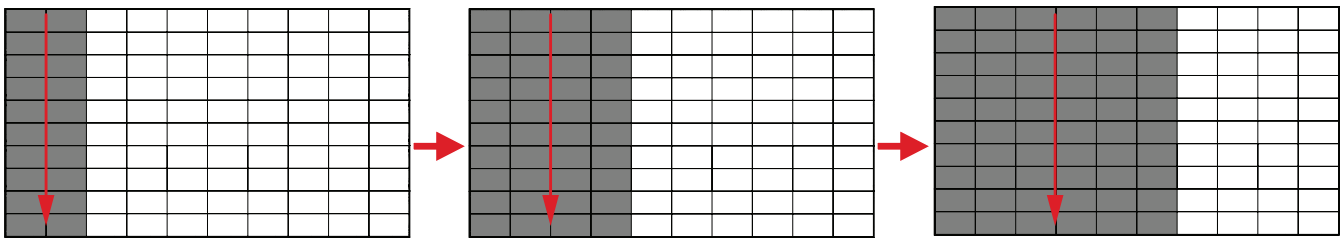
- Please wear Anti-Static Gloves before handling the LED Modules.
- To avoid direct contact with the LED Modules, please remove watches, rings, bracelets, or other metal objects.
- Use caution when installing the LED Modules.

1. Starting from the LED Module labeled “1” in the top left corner, align each LED Module with the Cabinet, then carefully press the Module into place.

NOTE: The arrow mark on the back of the LED Modules should be pointing up.



2. Attach the remaining LED Modules onto the Cabinets. Install from top left and move to bottom right, ensuring to match the corresponding numbers on the Module to the Cabinet.



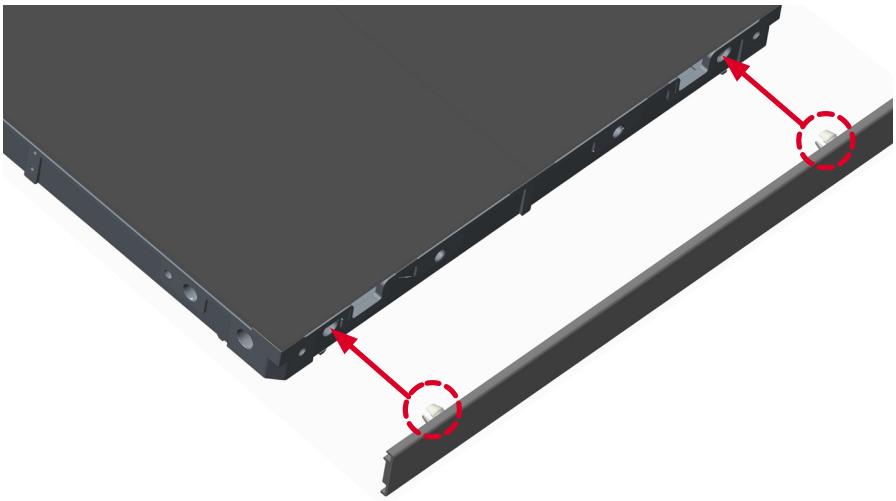
NOTE: Before installing the LED Module, ensure that each Module is flush and that there is little to no gap between each. It may be necessary to gently tap the module to make it flush.

Installing the Screen Bezels

- The Screen Bezels' plastic tabs are pre-installed onto the Bezels. Ensure all plastic tabs are properly mounted before installing the Screen Bezels onto the screen.
- The label indicates the top of each Screen Bezel. To ensure the Bezels are installed in the correct position, please use the labels on the inside of the Bezels as a guide.



1. Align the plastic tabs of the Screen Bezel with the holes provided in the screen.

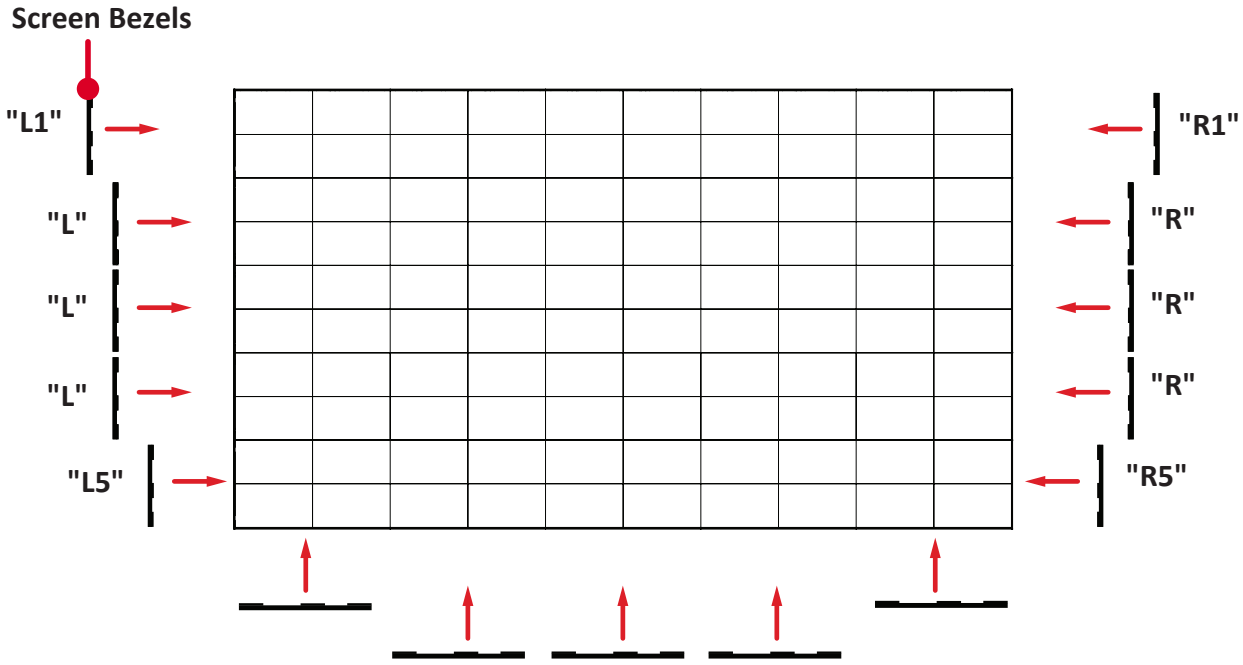


2. Press down on the Screen Bezel until you hear it click into place.

3. Place the remaining Screen Bezels onto the left and right sides of the screen.

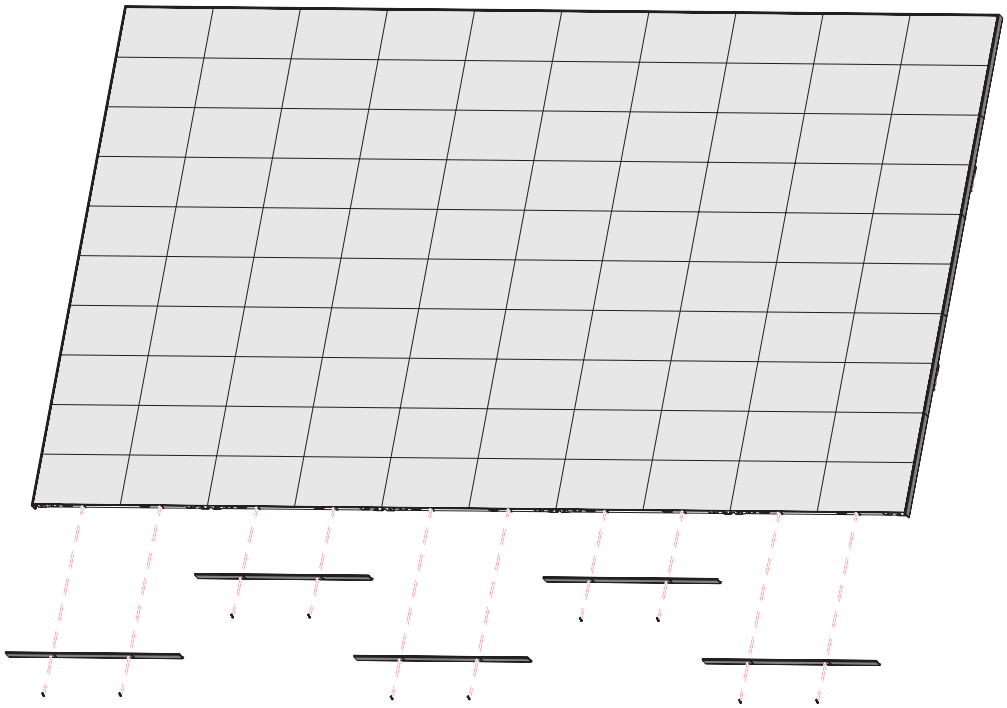
NOTE:

- Ensure the label side of the Screen Bezel is facing the screen.
- Before installing the Screen Bezels, check the label of each Bezel as the label helps you know which side (“L” = left side & “R” = right side) to attach the Bezel.
- The illustration below shows the location where each Screen Bezel should be installed.



4. After installing the Screen Bezels to the left and right sides of the screen, install the remaining Bezels to the bottom of the screen with the provided screws (M3 x10 mm).

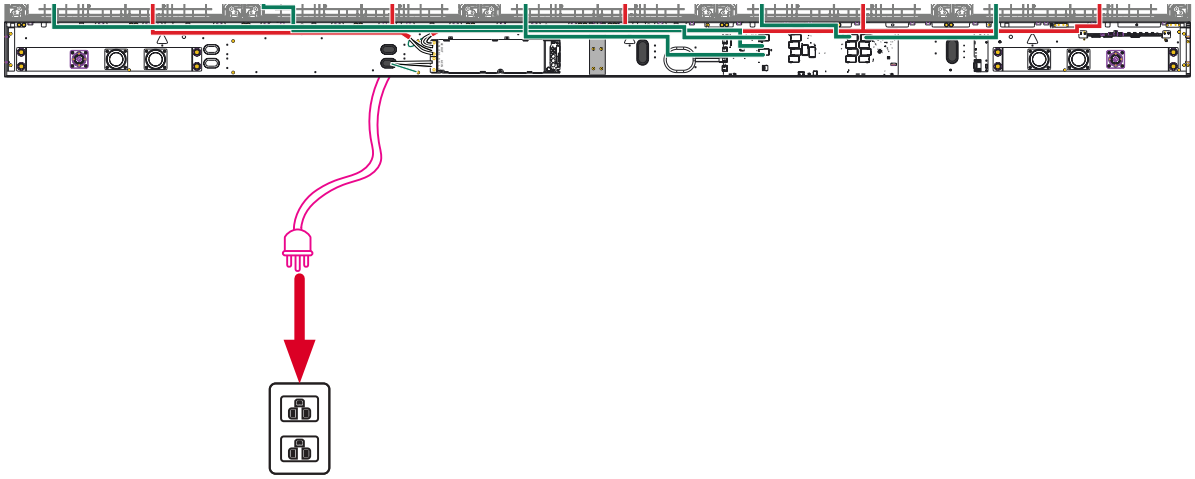
NOTE: There are five Screen Bezels to install.



Turning On the LED Display

1. Make sure the System Control Box Power Cable is connected and plugged into a power outlet.

NOTE: When the System Control Box Power Cable is connected to a power outlet, the Power Indicator Light will be a steady red. This means the LED Display is in standby mode. Please refer to the User Guide for more details.



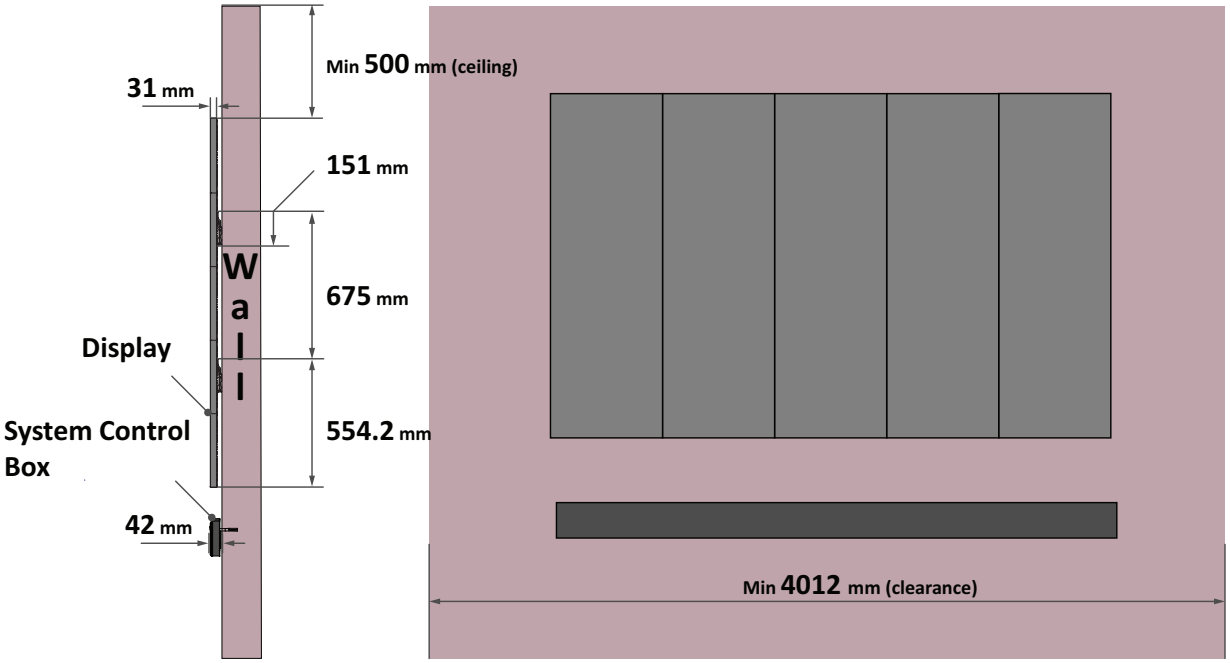
2. Your LED Display is now ready to power on.

Separate Installation

When the System Control Box is installed apart from the Cabinets, this installation type uses the same Wall Mount Brackets as the Standard Installation. However, you will need to pre-drill additional holes for the System Control Box.

Wall Installation

1. Ensure the wall area is an appropriate installation site.

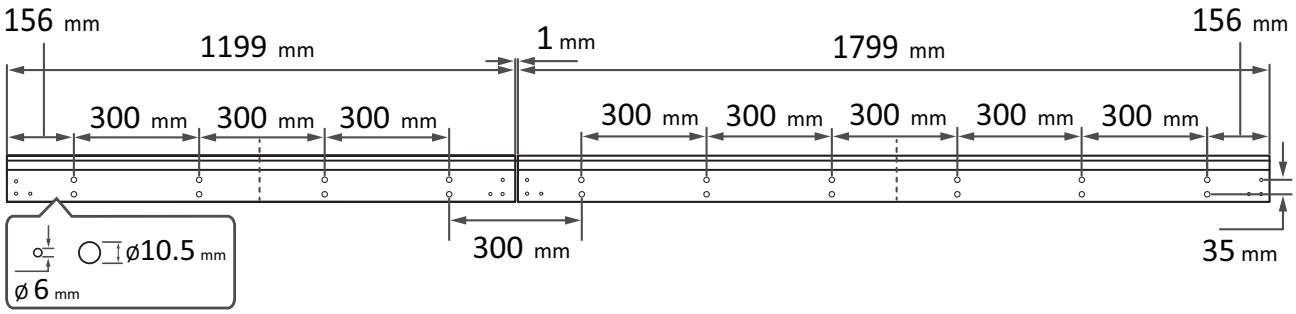


NOTE:

- You can also install the Upper Wall Mount Brackets, hang the screen, and then install the Lower Wall Mount Brackets for a more precise fit.
- Adjustment in floor clearance and ceiling height should be made according to the actual installation site.

2. Using the illustration as shown below as a guide, mark at least eight mounting holes and pre-drill them.

The Left (1199 mm) and Right (1799 mm) Wall Mount Brackets

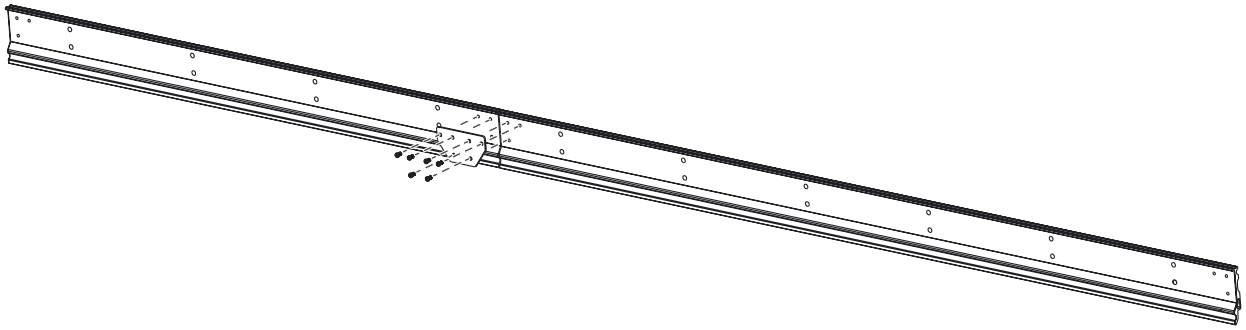


3. Install the Left Upper Wall Mount Bracket with the provided screws (M8 x 80 mm Expansion for masonry; wood screws for load bearing wood).

4. Repeat **Step 2**, ensuring the Right Upper Wall Mount Bracket is level with the Left Upper bracket.

NOTE: It is recommended to use a laser or torpedo level.

5. After mounting the Left and Right Upper Wall Mount Brackets to the wall, secure them with the Wall Mount Connector Plate using the six provided screws (PM6 x 10 mm).

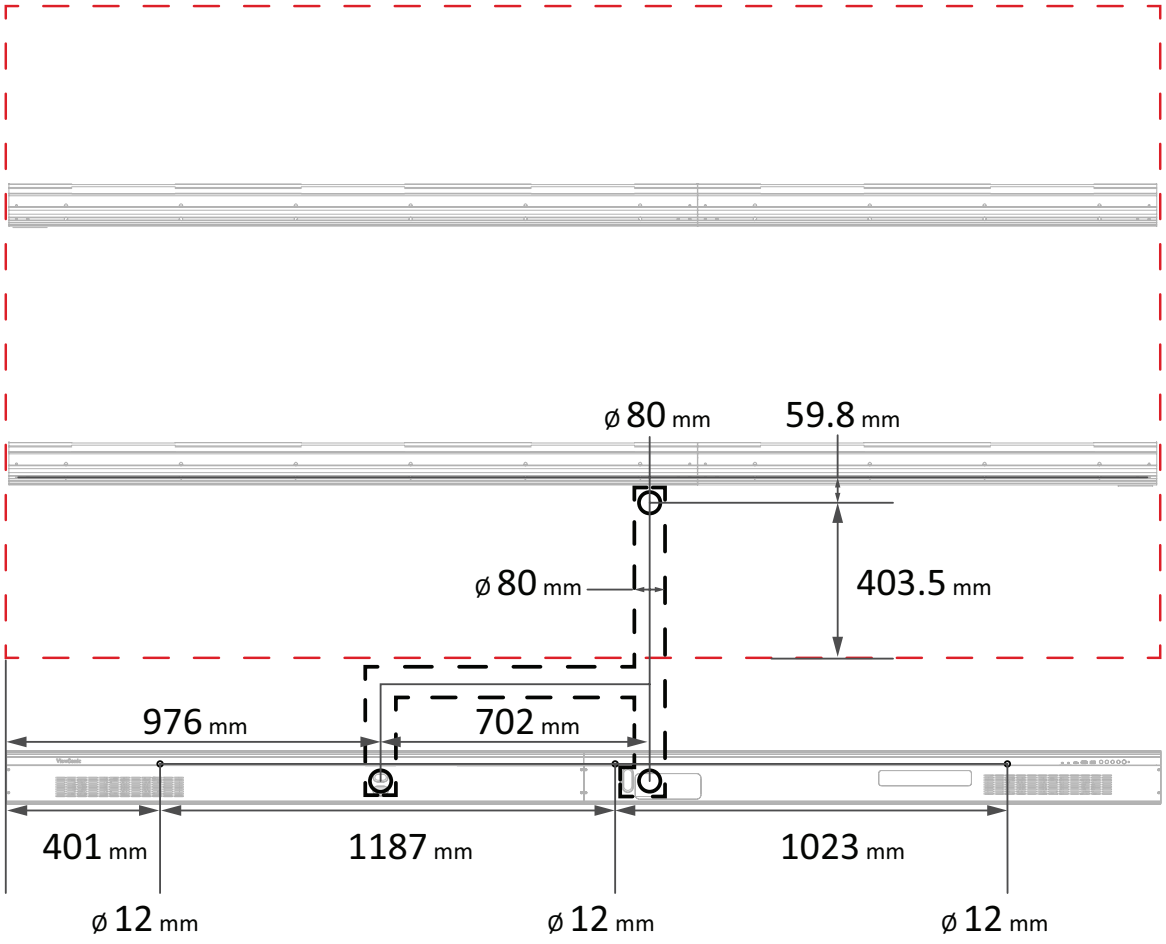


6. Use the illustration as shown below as a guide to mark the following holes and pre-drill them.

- At least three mounting holes for the System Control Box.
- Three cable access holes, one at the top and two at the bottom. The distance between the Lower Wall Mount Bracket and the top cable access hole is 59.8 mm.

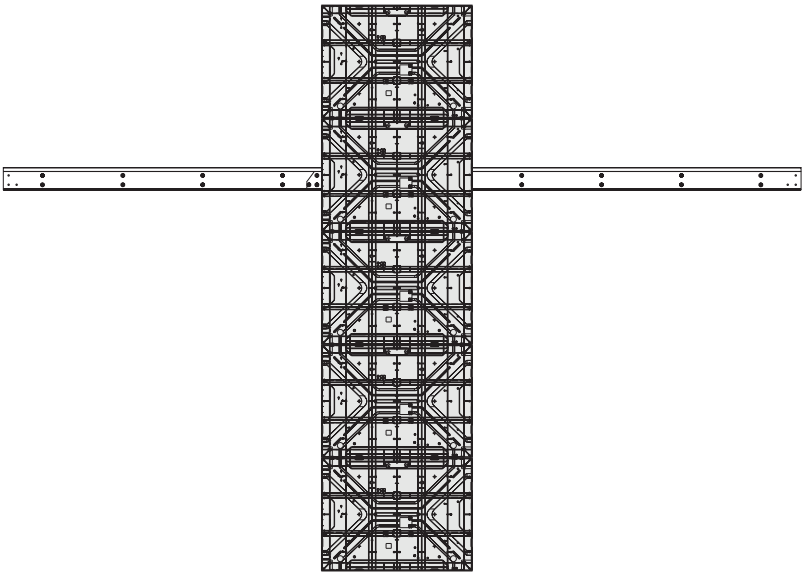
Drill Hole Spacing for System Control Box

Ensure there is enough space between the mounting holes and cable access holes.



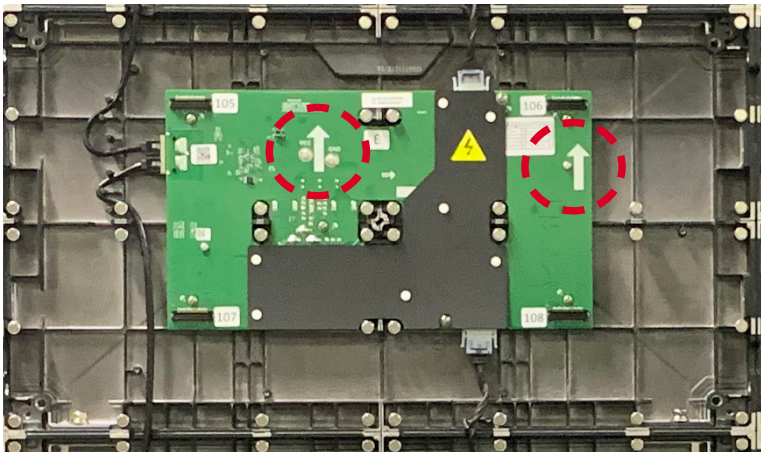
Installing the Cabinets

1. Carefully lift Cabinet “C” onto the center of the Upper Wall Mount Brackets.

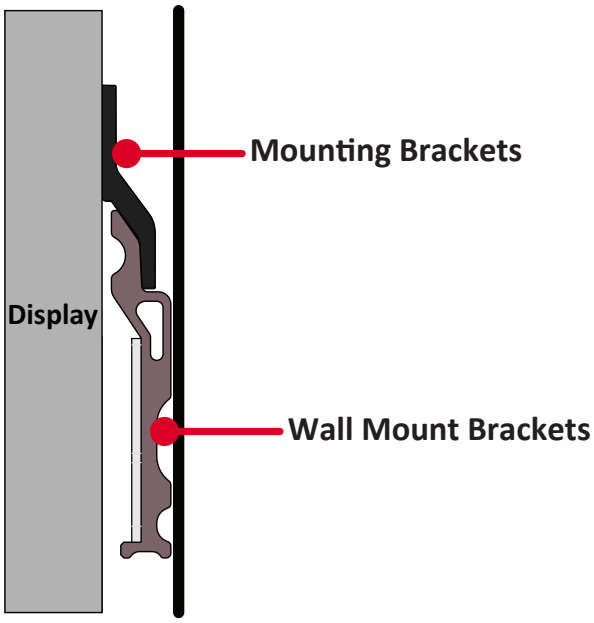


NOTE:

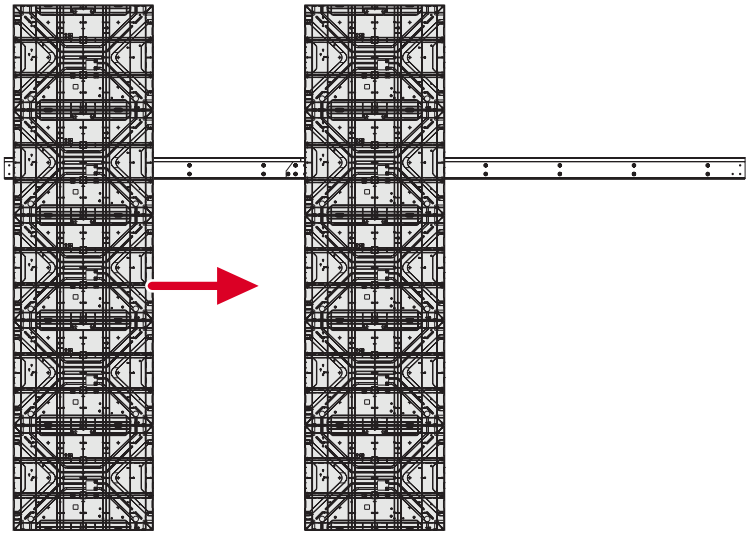
- One Cabinet weighs approximately 31 kg (68.34 lbs).
- You can identify Cabinets by the labels on the package.
- The arrow marks should be pointing up.



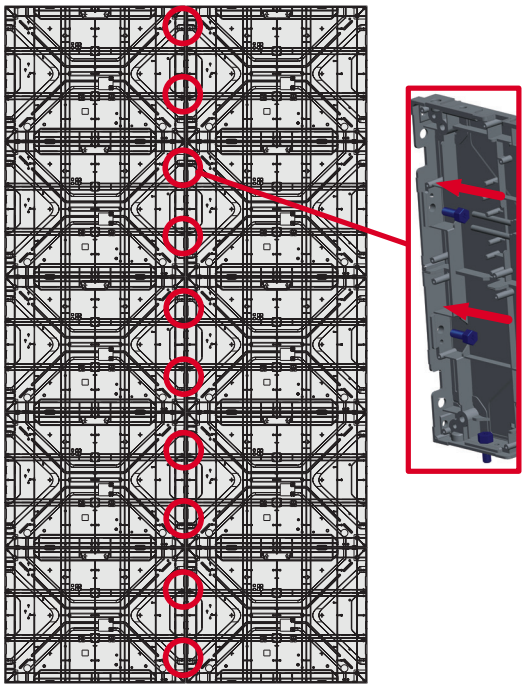
2. Ensure the Mounting Brackets sit securely on the Wall Mount Brackets as shown below.



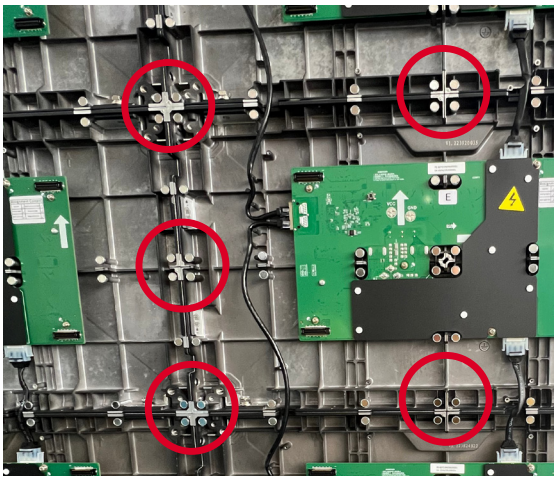
3. Lift Cabinet “B” and install it on the left side of Cabinets “C”. Install the two Cabinets together with the provided screws (M8 x 20 mm).



NOTE: There are ten screws between each Cabinet.

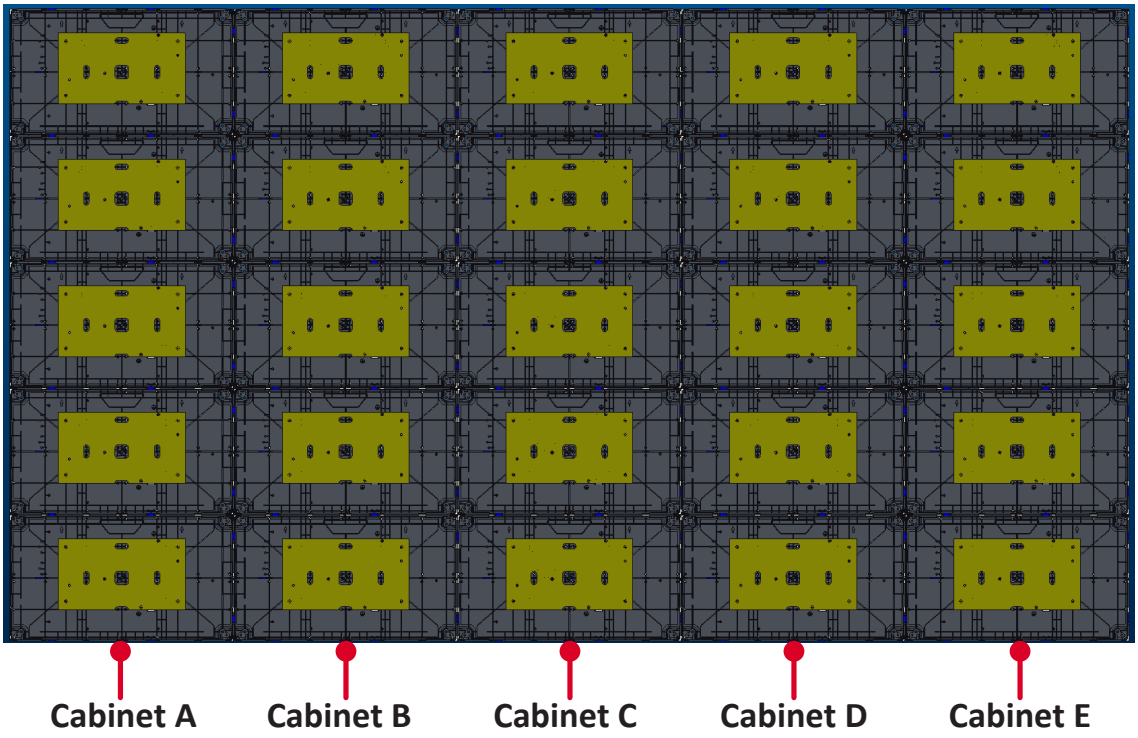


4. Check for unevenness of the Cabinets by rubbing the cross section with your fingers between each Cabinet. If the cross section is not aligned, loosen the M8 screws slightly and tap the Cabinets until the cross section is flat.



5. Place the remaining Cabinets onto the Wall Mount Brackets. Install from the center to the right and left sides of the Wall Mount Brackets.

NOTE: The installation sequence by Cabinet: C ➜ B ➜ D ➜ A ➜ E



Extending the Power Cables

The Power Cables of the Cabinets must be extended first if the System Control Box is mounted behind the Cabinets (Hidden Installation).

NOTE: The Power Cables of the Cabinets are built in with the System Control Box.



Power Cable of Cabinets "A" and "B"



Power Cable of Cabinets "C", "D", and "E"

1. Disconnect the Power Cables of the Cabinets from the System Control Box.

It is recommended to take photos of the completed wiring in the left and main system control boards before removing the Cables.

2. Replace the pre-installed Cabinet Cable Extension with the longer Cabinet Cable Extension. Ensure to match the corresponding letter on the longer Cabinet Cable Extension to the Power Cable.

NOTE: Cabinets are labeled on both the Power Cables and Cabinet Cable Extensions.

3. Fully cover the joint with the supplied electrical tape, ensuring to wrap it with at least 25 mm for better protection.



4. Repeat **Step 2~3** for the other Cabinet Cable Extensions.

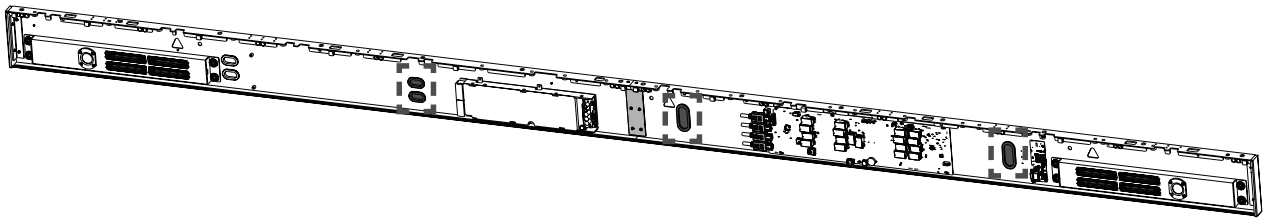
NOTE: There are five Cabinet Cable Extensions to connect.

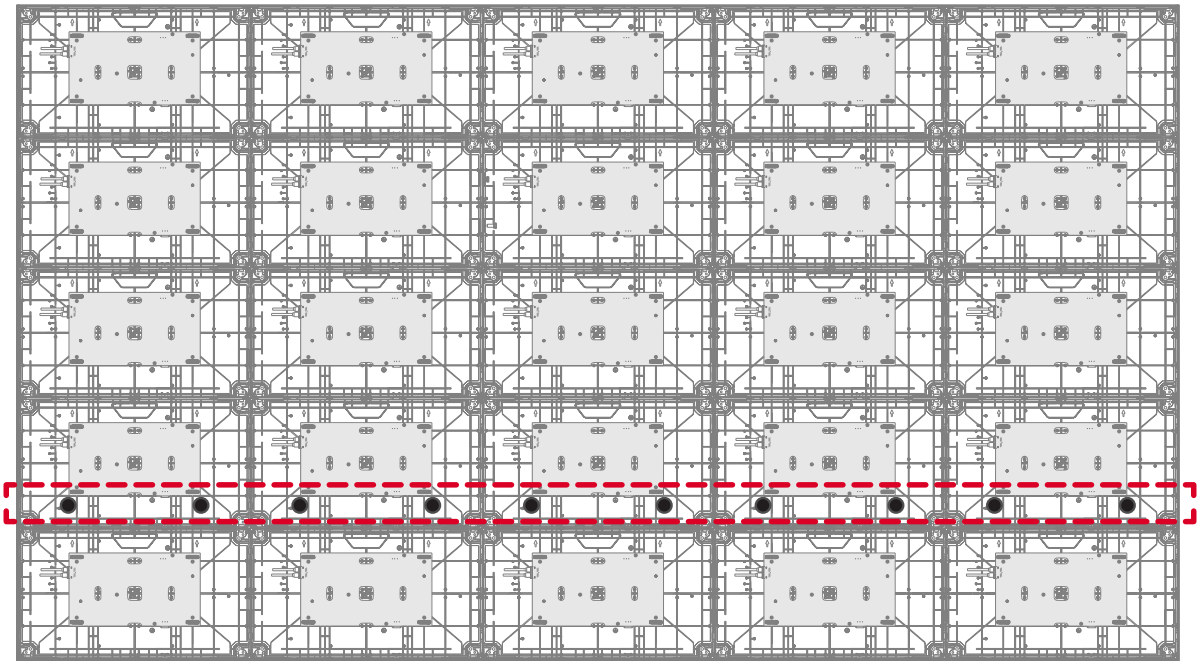
Connecting the System Control Box

NOTE: The left and right sides of the System Control Box are pre-installed with its Covers in the factory. The main system control board is on the right.

- The safety wires are used to prevent the Right Cover from falling when accessing the System Control Box. Please ensure that the safety wires are never removed.
- Use caution as the System Control Box panel is separated into two pieces with wires attached.
- Before installing the System Control Box, the Power Cables of the Cabinets must be extended first. You also need the longer Network Cables supplied in the case for this installation type.

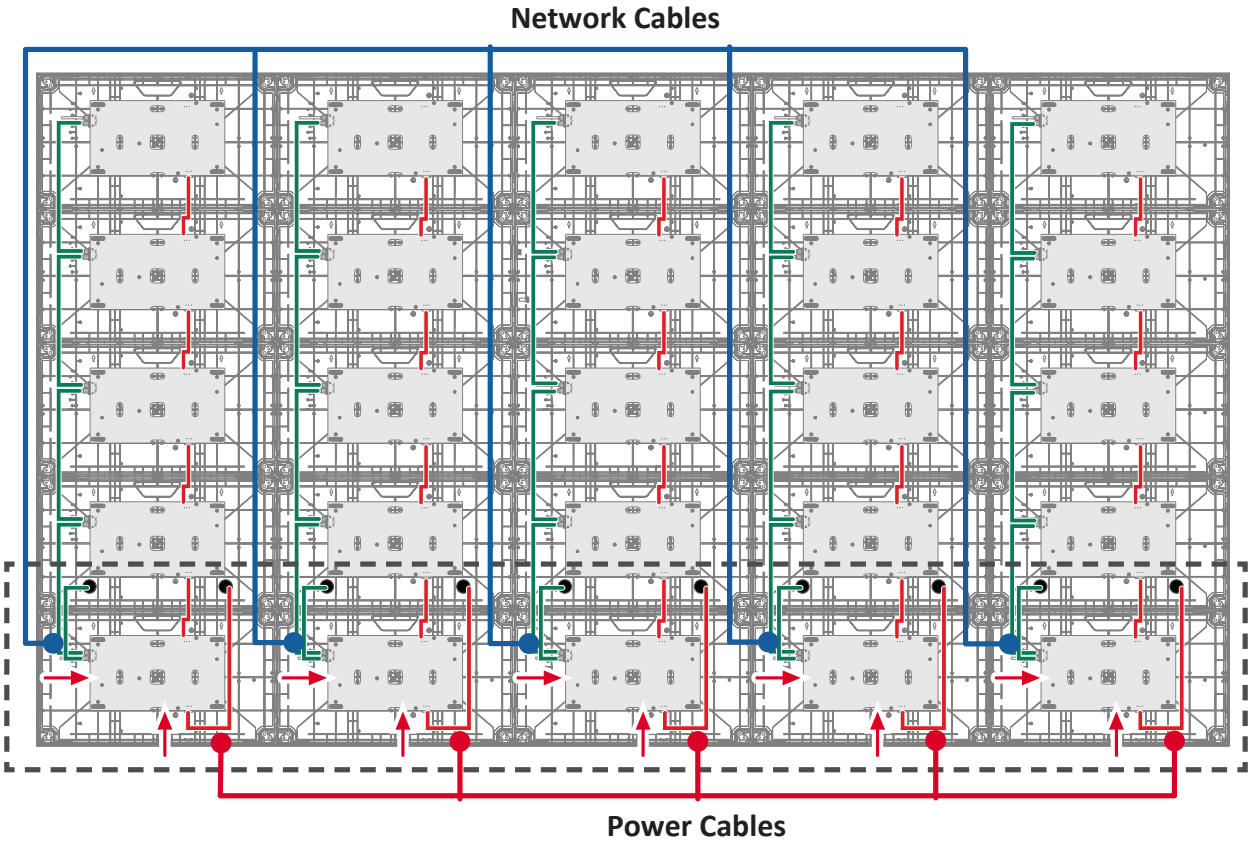
1. The rubber hole plugs installed on both the System Control Box and Cabinets are used to protect the Cables from rubbing against any pointed edges. Use a knife to cut the hole to size along the cross.





2. Connect the connector of the extended Power Cable to the power port of the Cabinet. Then, connect one end of the longer Network Cable to the network port of the Cabinet. Ensure to match the corresponding letters on the Cables to the Cabinets (A to A, B to B, C to C, and so on).

NOTE: Each Cabinet has one Power and one Network Cable to connect.



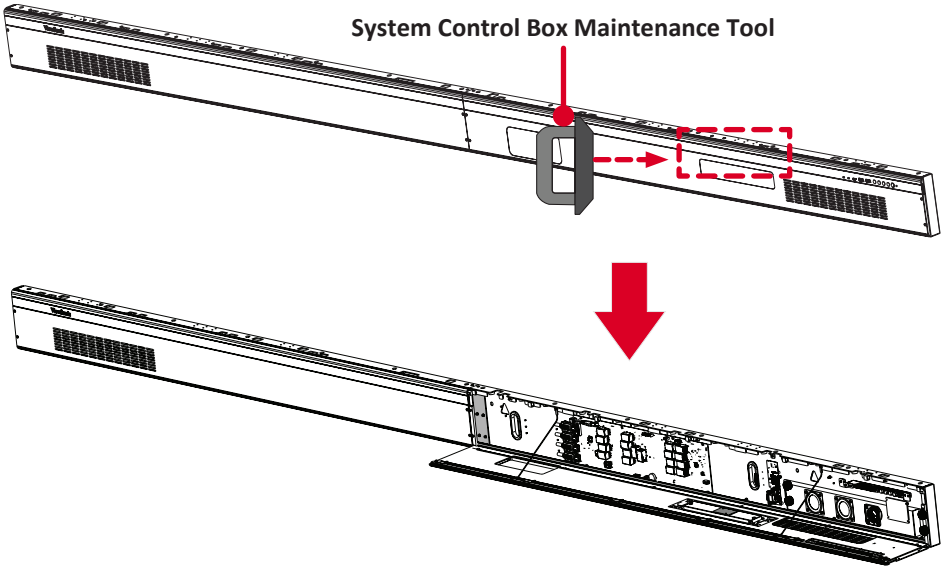
3. After connecting the Power and Network Cables, carefully thread them through the holes provided in the Cabinets and run the Cables behind the Cabinets from the top cable access hole through the bottom cable access holes.

Avoid sharp bends in the Cables.

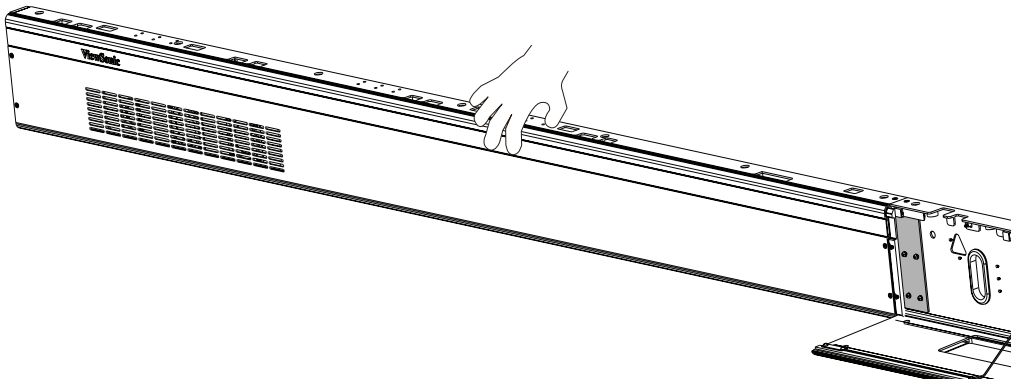
4. Carefully place the System Control Box on stable furniture that can safely support the System Control Box.

5. To open the Right Cover, slowly bring the supplied System Control Box Maintenance Tool near the surface of the Right Cover where the steel plate is located. Then, the Right Cover should detach from the System Control Box magnetically.

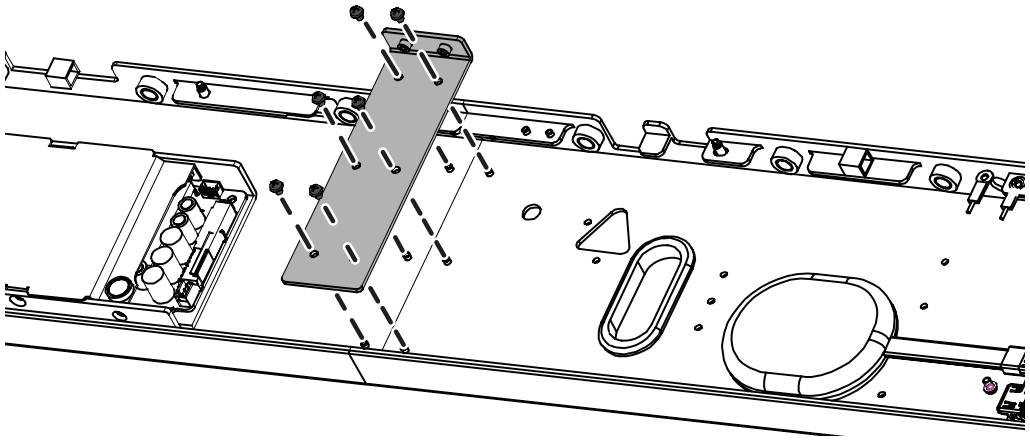
DO NOT try to remove or disconnect the safety wires. Please ensure that the safety wires are never removed.



6. Remove the Left Cover by gripping the top edge of the Cover and pulling it toward you. The Left Cover should simply lift away.



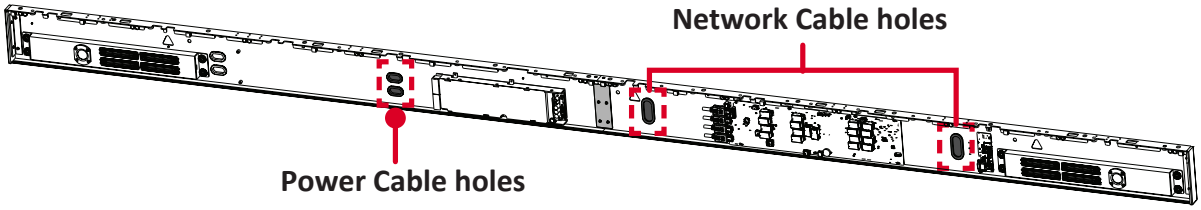
7. Secure the System Control Box panel with the Connector Plate using the provided screws (M3 x 6 mm).



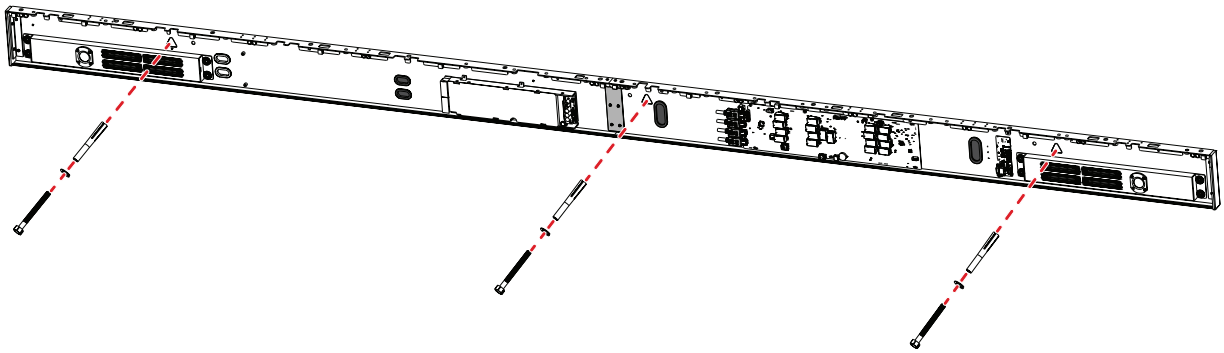
DO NOT try to remove or disconnect the safety wires. Please ensure that the safety wires are never removed.

8. Place the System Control Box accordingly over the drilled mounting holes to attach.

9. Carefully thread the Power and Network Cables through the holes provided in the System Control Box from behind. Ensure to use the correct cable holes for the Power and Network Cables.



10. After threading the Power and Network Cables, install the System Control Box onto the wall with the provided screws (M8 x 80 mm Expansion for masonry; wood screws for load bearing wood).



11. Remove the pre-installed Power and Network Cables of the Cabinets from the System Control Box.

NOTE:

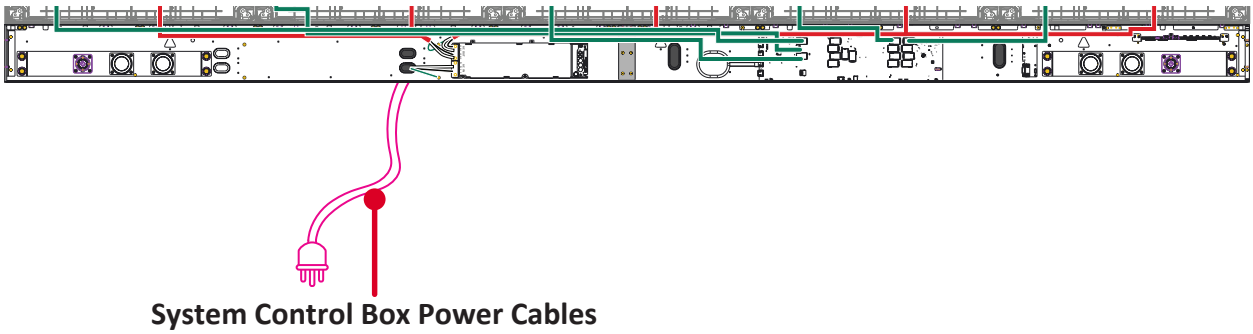
- There are five Power and five Network Cables to remove.
- It is recommended to take photos of the completed wiring in the left and main system control boards before removing the Cables.

12. After removing the pre-installed Power and Network Cables of the Cabinets, connect the other end of the longer Network Cables to the network port that was disconnected from the System Control Box in **Step 11**.

NOTE: There are five Network Cables to connect.

13. After threading the Network Cables, please follow the diagram below to connect the extended Power Cables to the AC unit of the System Control Box.

DO NOT connect the System Control Box Power Cable at this time.

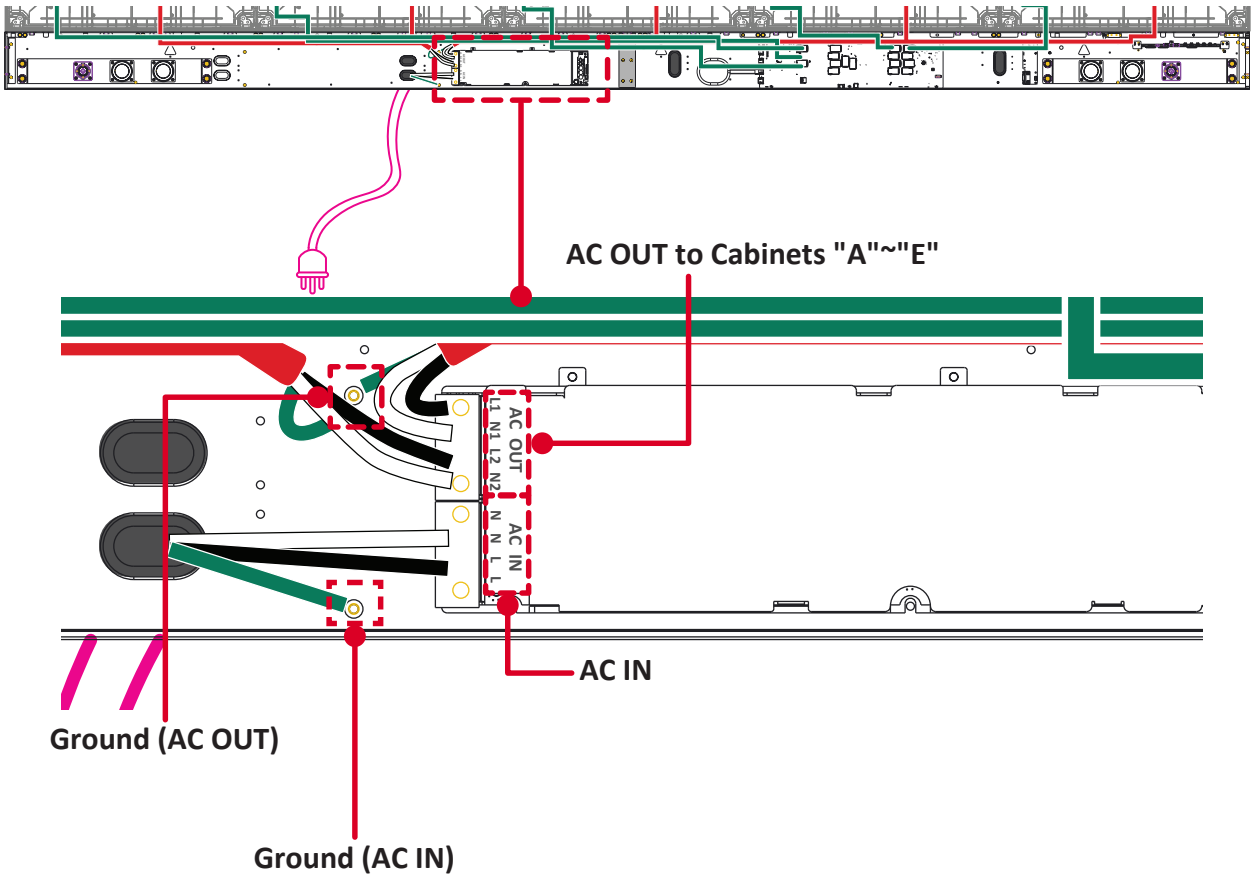


System Control Box Power Cables

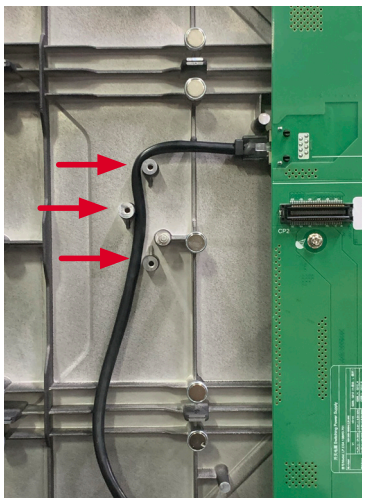
- Connect the neutral wires (usually white/blue) to the “N1” and “N2” terminals.
- Connect the hot wires (usually black/brown) to the “L1” and “L2” terminals.
- Connect the ground wires (usually in green) to the ground terminals.

The meaning of wiring color may vary by country.

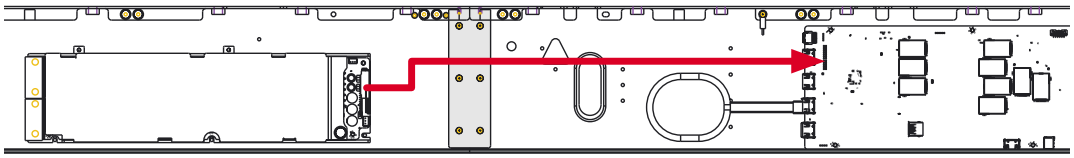
Use the provided wrench to tighten the neutral, hot, and ground conductors in the terminals properly.



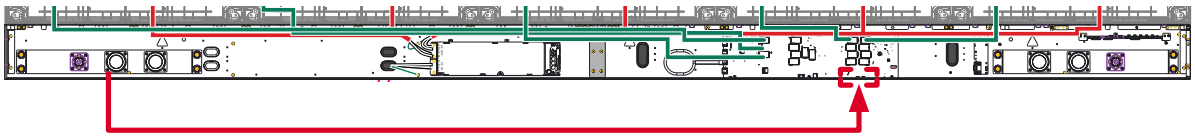
14. Route the Power and Network Cables around the rods provided in the Cabinets and secure the Cables to the rods with the Cable Zip Tie and screw (PM3 x 10 mm). Leave a little slack for later adjustments if needed.



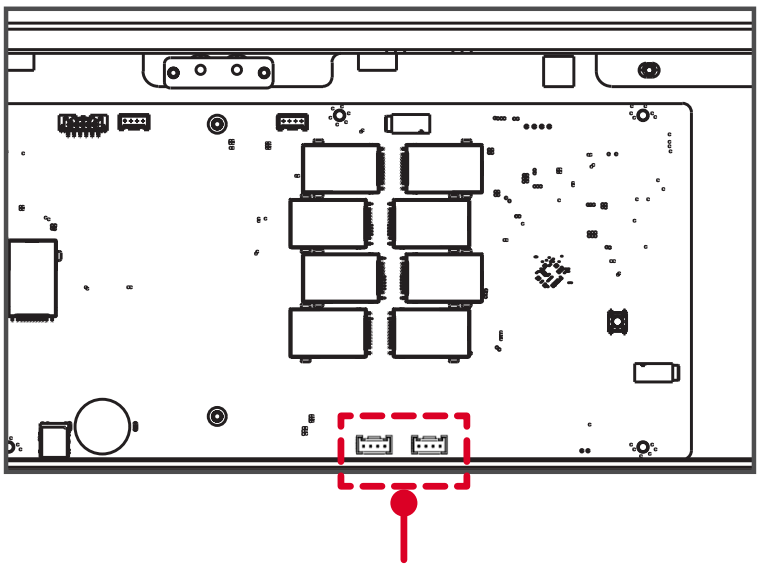
15. Connect the left system control board to the main system control board.



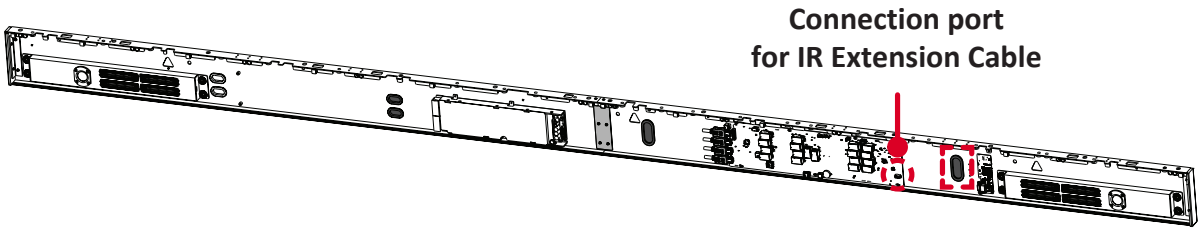
16. Connect the LED Display's left speaker to the Audio Out port of the system control board.



NOTE: Ensure the right speaker is properly connected to the other Audio Out port.

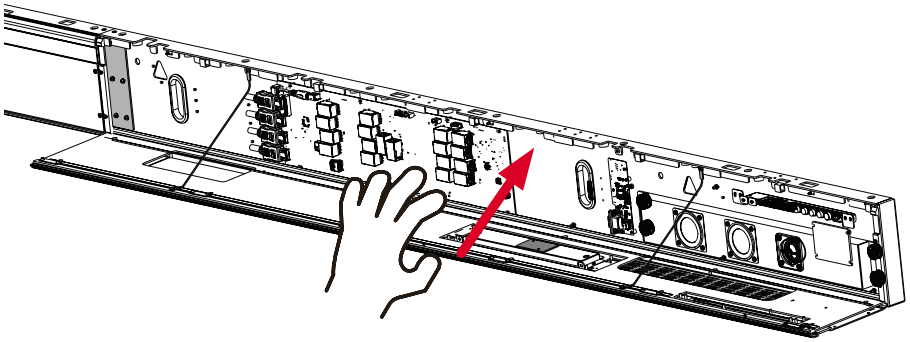


NOTE: After the IR Extension Cable is connected, route it through the adjacent cable hole as highlighted below to the rear.



17. After connecting all Cables and wires, hold the top edge of the Right Cover toward the System Control Box to replace it. Once the Right Cover is replaced, it will be held in place magnetically.

NOTE: Ensure the Power Button cable is connected before securing the Right Cover.



18. Replace the Left Cover by aligning it properly with the System Control Box; then the Left Cover should attach magnetically.

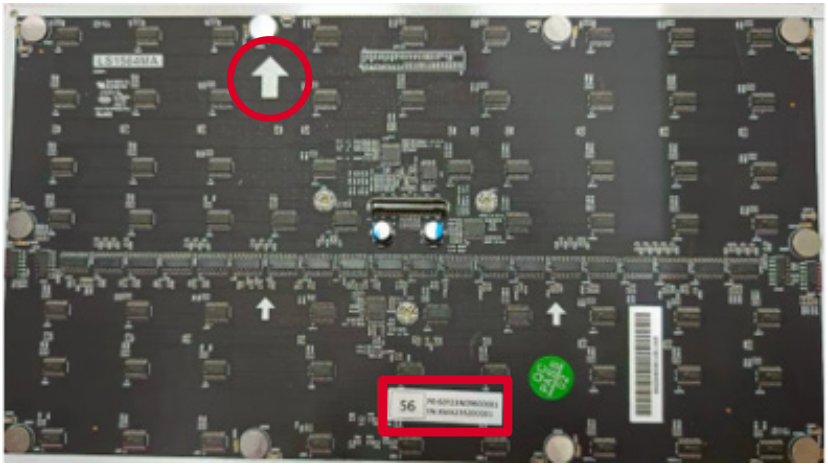
Please ensure there are no sharp bends in the Cables and wires.

Installing the LED Modules

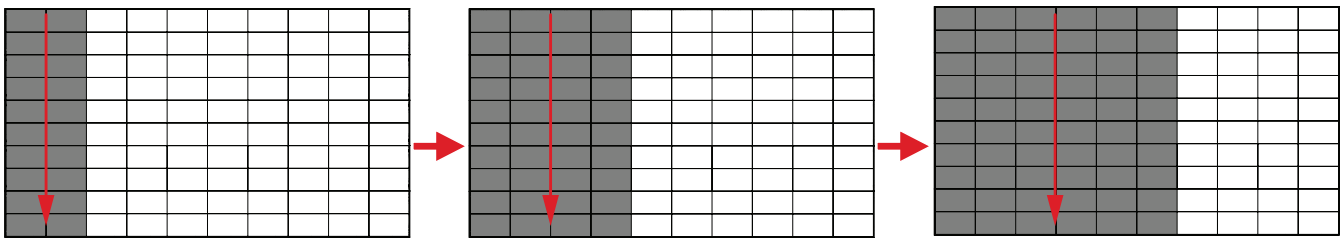
- Please wear Anti-Static Gloves before handling the LED Modules.
- To avoid direct contact with the LED Modules, please remove watches, rings, bracelets, or other metal objects.
- Use caution when installing the LED Modules.

1. Starting from the LED Module labeled “1” in the top left corner, align each LED Module with the Cabinet, then carefully press the Module into place.

NOTE: The arrow mark on the back of the LED Modules should be pointing up.



2. Attach the remaining LED Modules onto the Cabinets. Install from top left and move to bottom right, ensuring to match the corresponding numbers on the Module to the Cabinet.



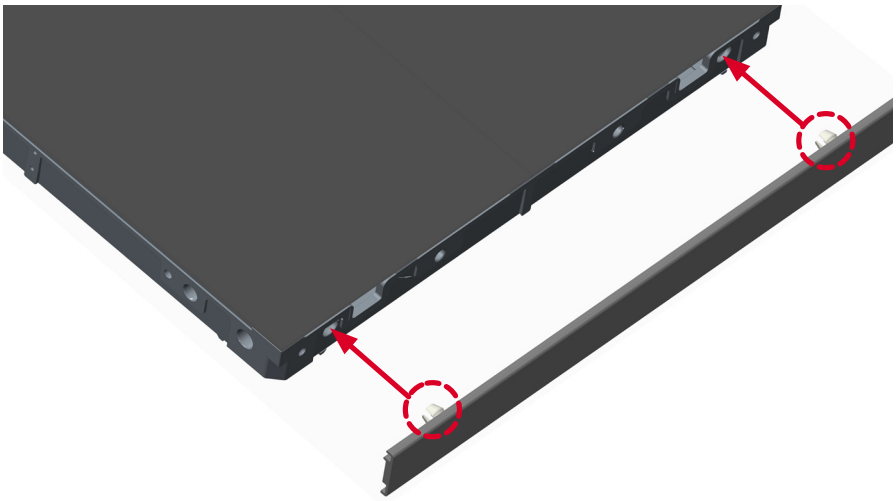
NOTE: Before installing the LED Module, ensure that each Module is flush and that there is little to no gap between each. It may be necessary to gently tap the module to make it flush.

Installing the Screen Bezels

- The Screen Bezels' plastic tabs are pre-installed onto the Bezels. Ensure all plastic tabs are properly mounted before installing the Screen Bezels onto the screen.
- The label indicates the top of each Screen Bezel. To ensure the Bezels are installed in the correct position, please use the labels on the inside of the Bezels as a guide.



1. Align the plastic tabs of the Screen Bezel with the holes provided in the screen.

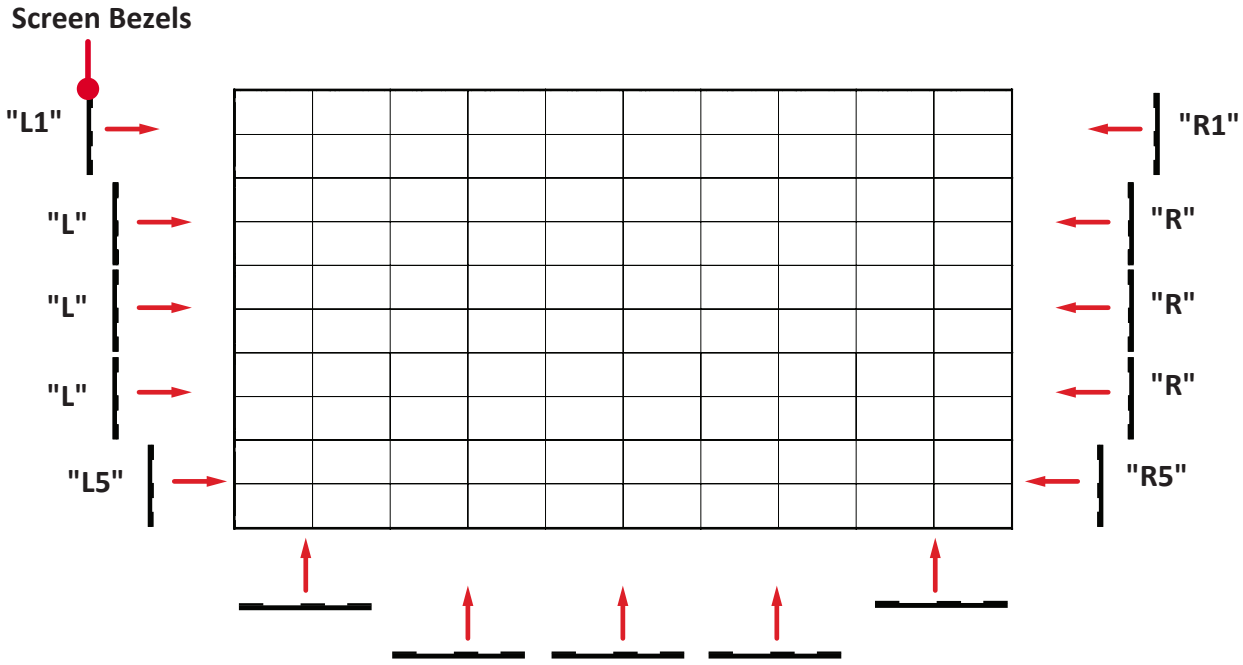


2. Press down on the Screen Bezel until you hear it click into place.

3. Place the remaining Screen Bezels onto the left and right sides of the screen.

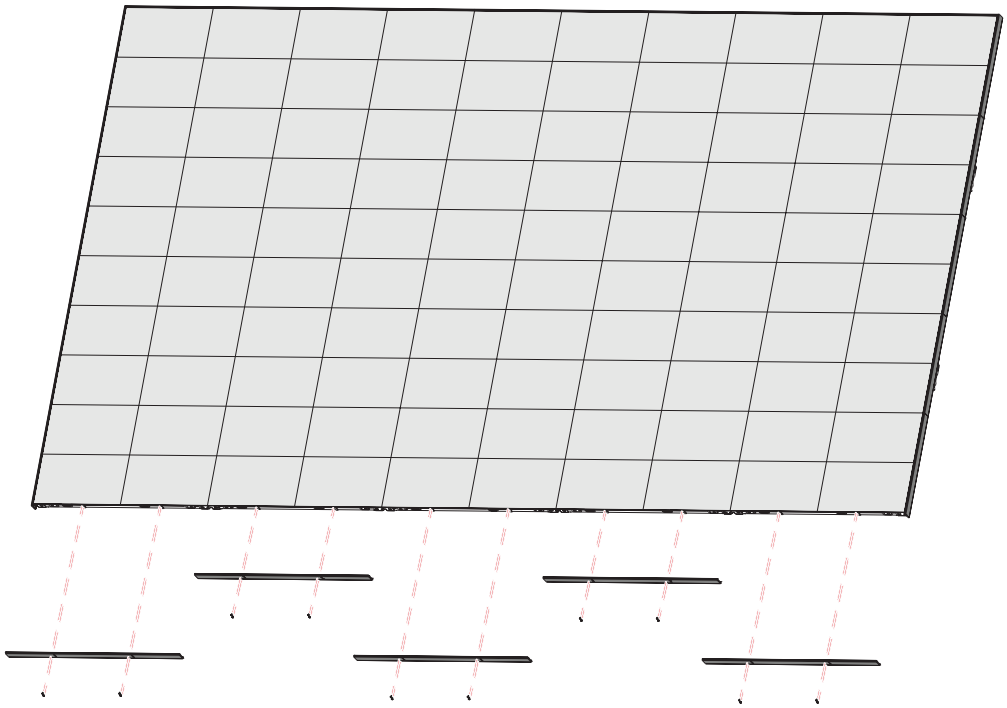
NOTE:

- Ensure the label side of the Screen Bezel is facing the screen.
- Before installing the Screen Bezels, check the label of each Bezel as the label helps you know which side (“L” = left side & “R” = right side) to attach the Bezel.
- The illustration below shows the location where each Screen Bezel should be installed.



4. After installing the Screen Bezels to the left and right sides of the screen, install the remaining Bezels to the bottom of the screen with the provided screws (M3 x10 mm).

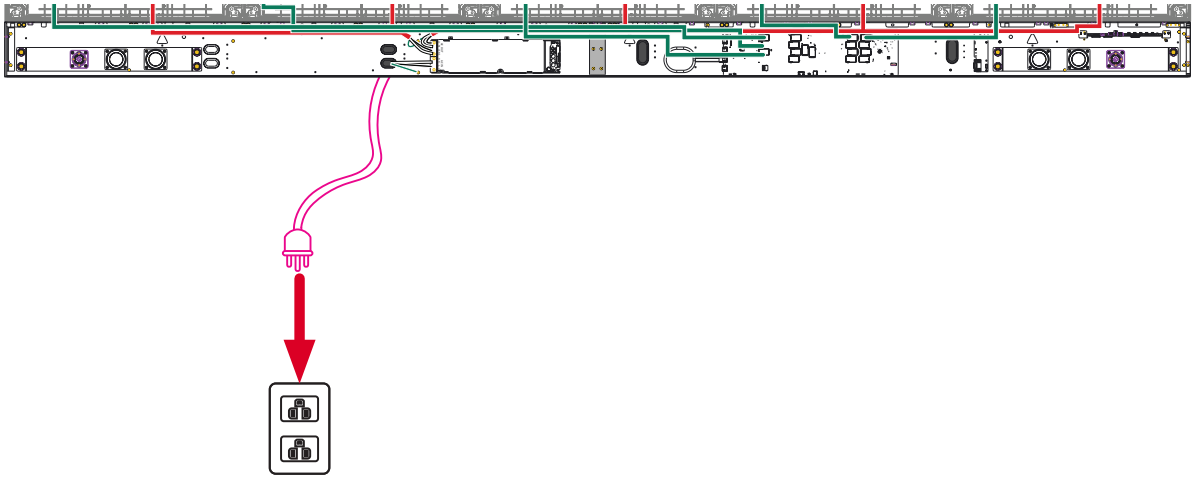
NOTE: There are five Screen Bezels to install.



Turning On the LED Display

1. Make sure the System Control Box Power Cable is connected and plugged into a power outlet.

NOTE: When the System Control Box Power Cable is connected to a power outlet, the Power Indicator Light will be a steady red. This means the LED Display is in standby mode. Please refer to the User Guide for more details.



2. Your LED Display is now ready to power on.

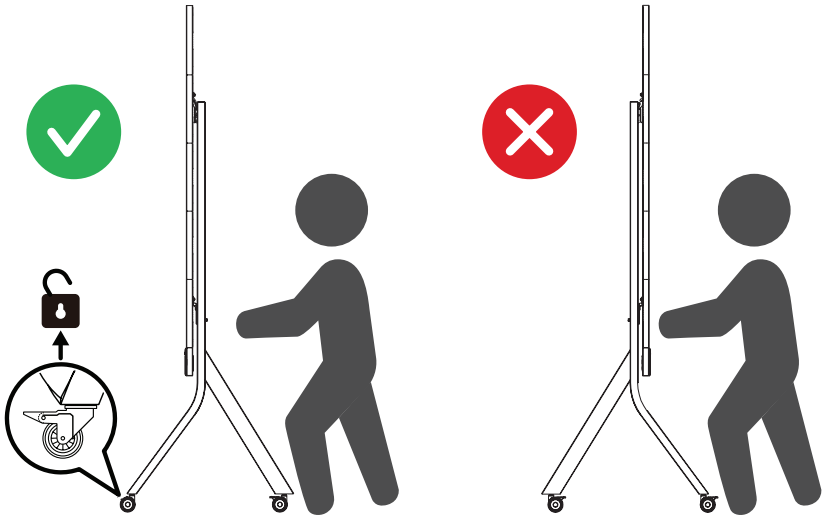
Trolley Mounting

The floor stand (trolley) is an optional accessory. Follow below instructions to build and install your LED Display onto the trolley.

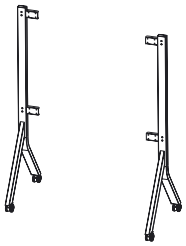
NOTE: The trolley is compatible only with ViewSonic Direct View LDM136-151 and LDM163-182. Using the trolley with other models may cause instability and injury.

Before Building

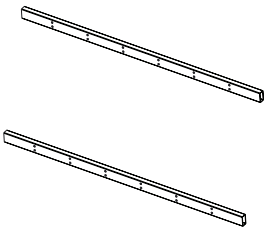
- DO NOT move the trolley over cords or uneven, dirty, soft, or high incline surfaces.
- To avoid injury, KEEP AWAY from moving parts.
- DO NOT move the trolley by pushing on the LED Display.
- DO NOT push the trolley from the front of the LED Display or attempt to lift it.



Component List



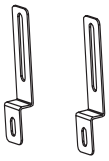
Left and Right Supports



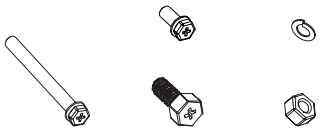
Top and Bottom Cross Beams



Upper Wall Mount Brackets[2]

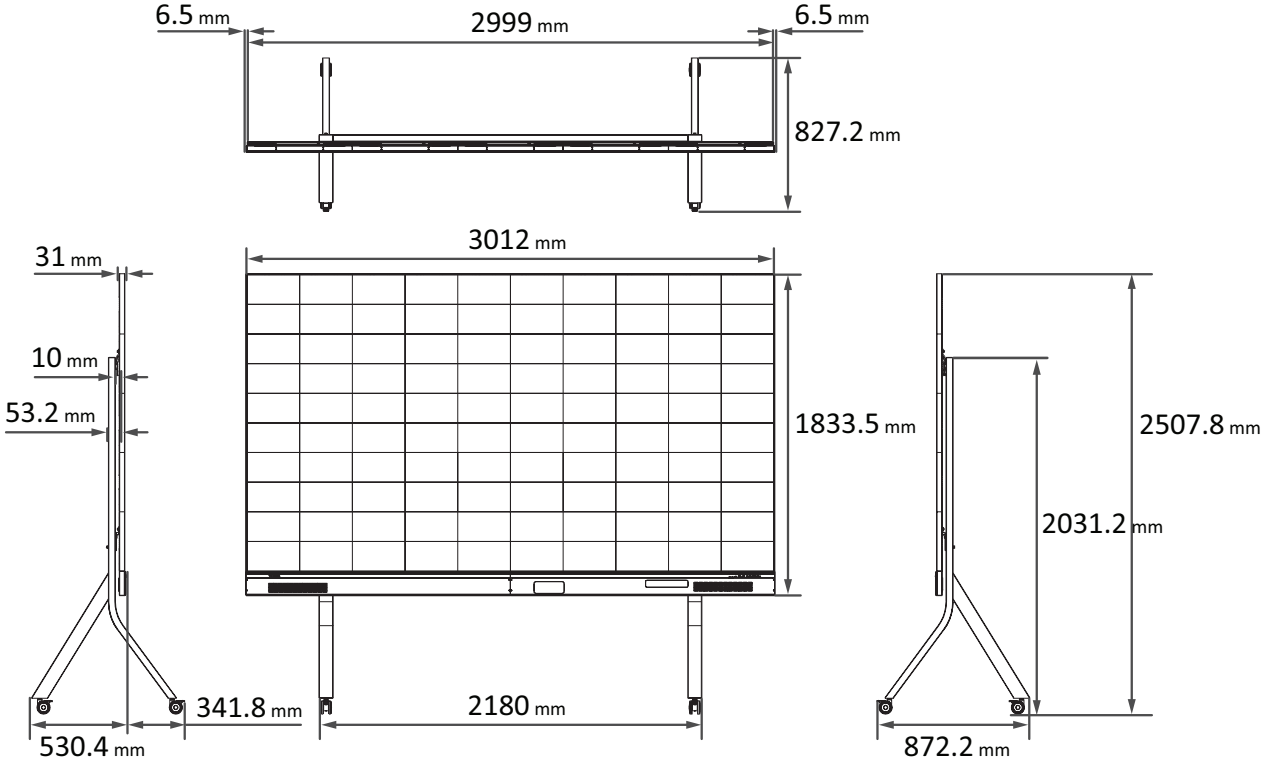


Cabinet Brackets



Nuts and Bolts

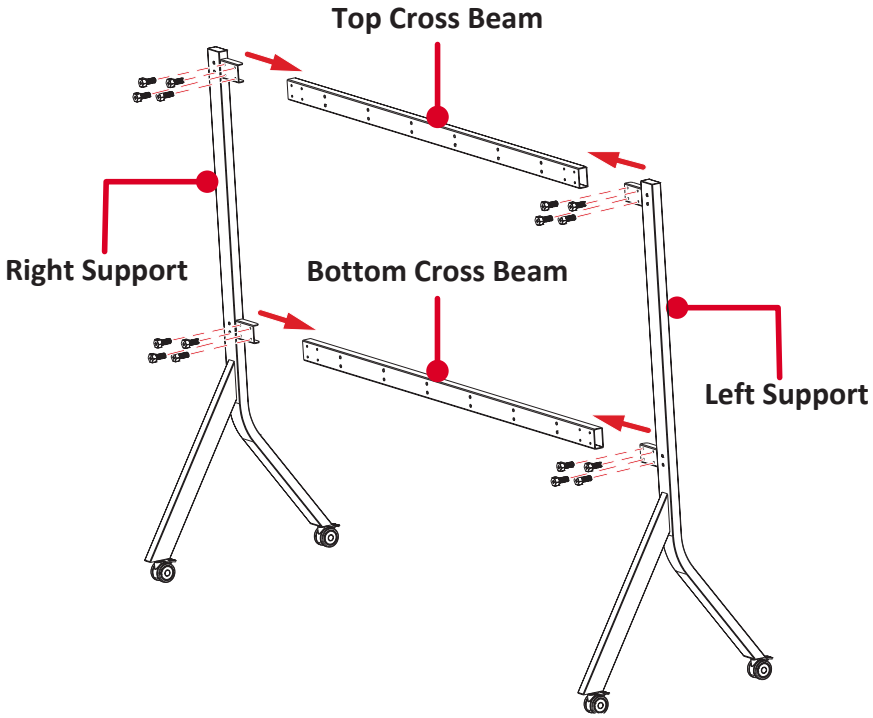
Dimensions



2 - You don't need the Lower Wall Mount Brackets for this mounting system.

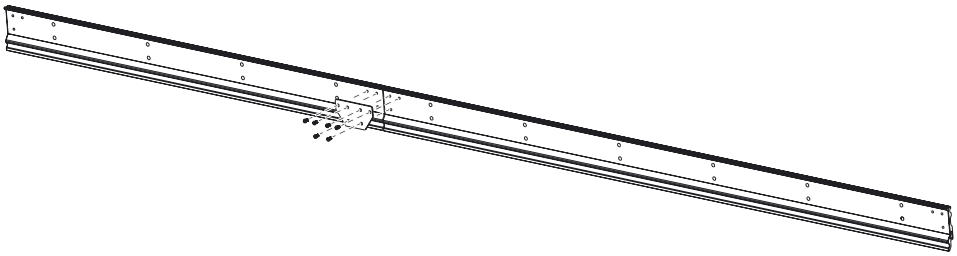
Building the Trolley

1. Install the Top and Bottom Cross Beams to the Left and Right Supports. Secure them together with the provided screws (M8 x 20 mm).

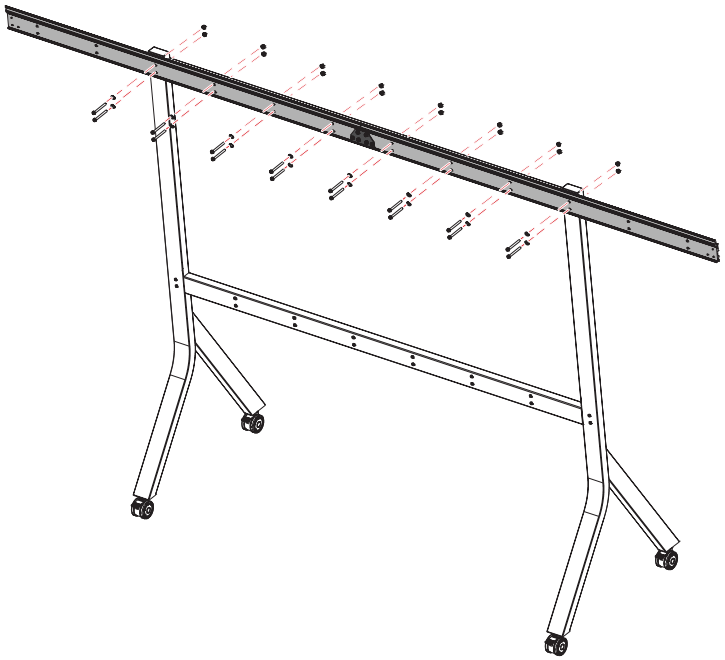


Building the Trolley (Rear View)

2. Connect the Left and Right Upper Wall Mount Brackets using the Wall Mount Connector Plate with the six provided screws (PM6 x 10 mm).



3. Install the Upper Wall Mount Brackets to the Top Cross Beam with the provided screws (M8 x 80 mm), lock washers, and nuts.

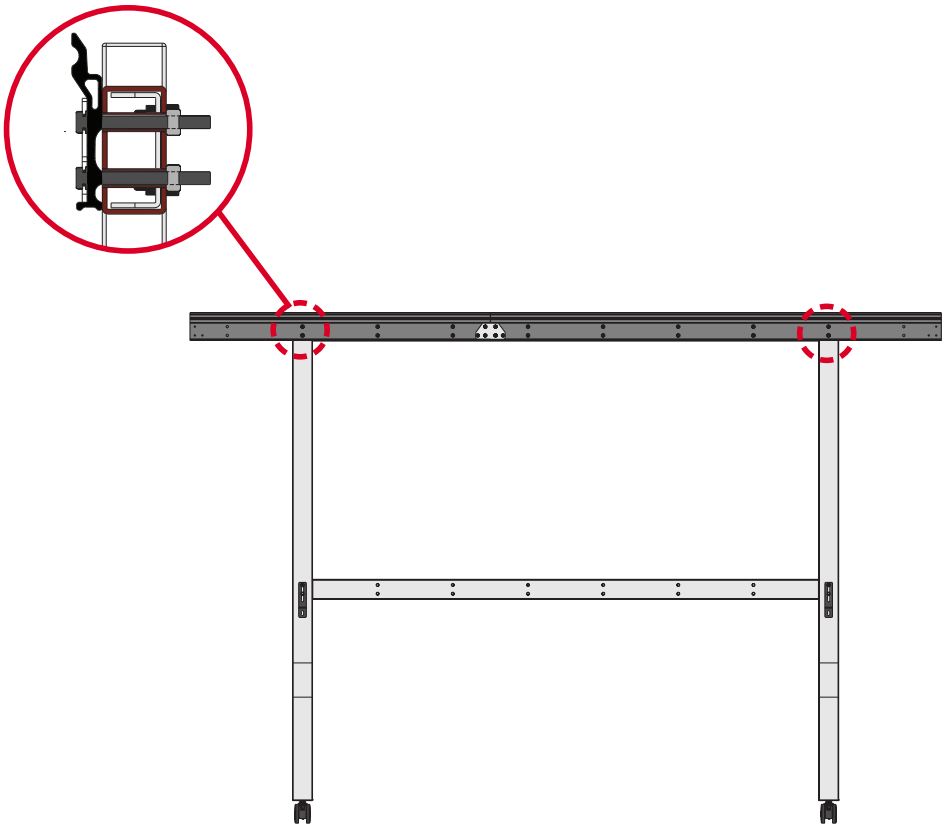


4. Install the Cabinet Brackets to the lower side of the Left and Right Supports with the provided screws, lock washers, and nuts. The Cabinet Brackets are used later for further securing the lower part of the Cabinets to the trolley.

NOTE: There are two Cabinet Brackets to install.

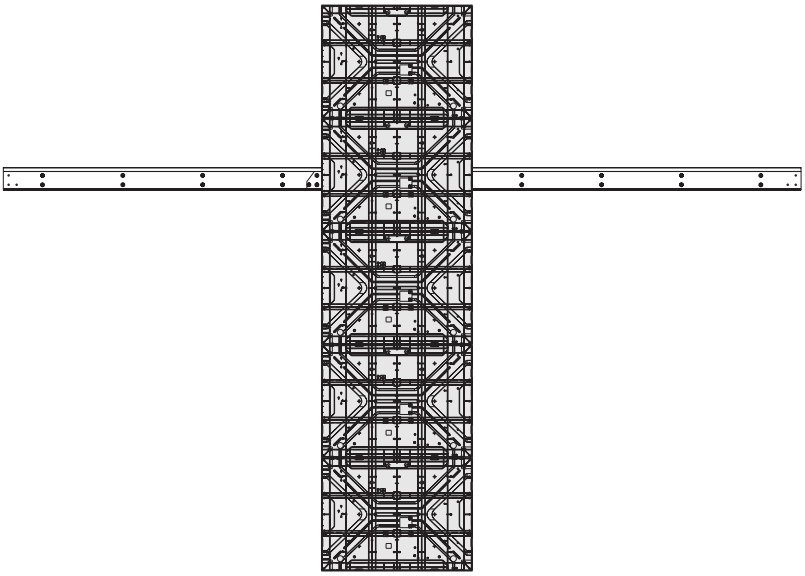


5. Ensure all parts are accurately and securely held together, as shown in the diagrams below.



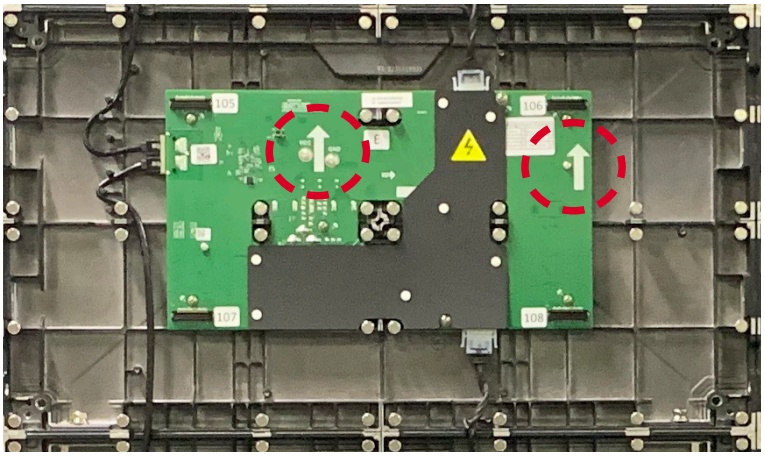
Installing the Cabinets

1. Carefully lift Cabinet “C” onto the center of the Upper Wall Mount Brackets.

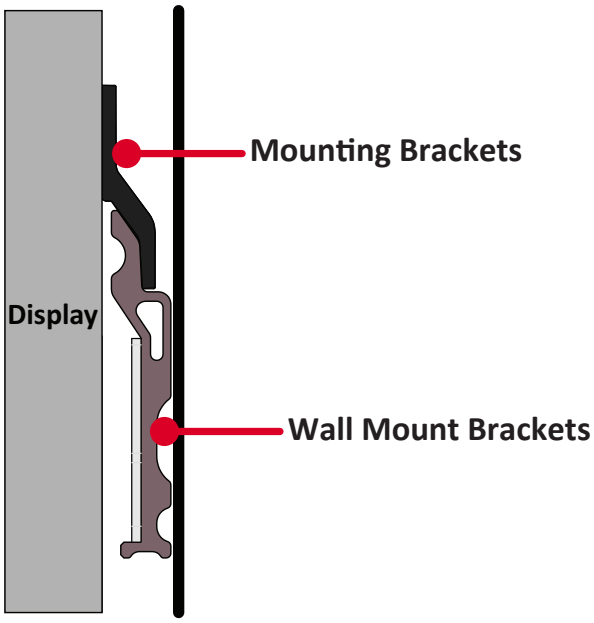


NOTE:

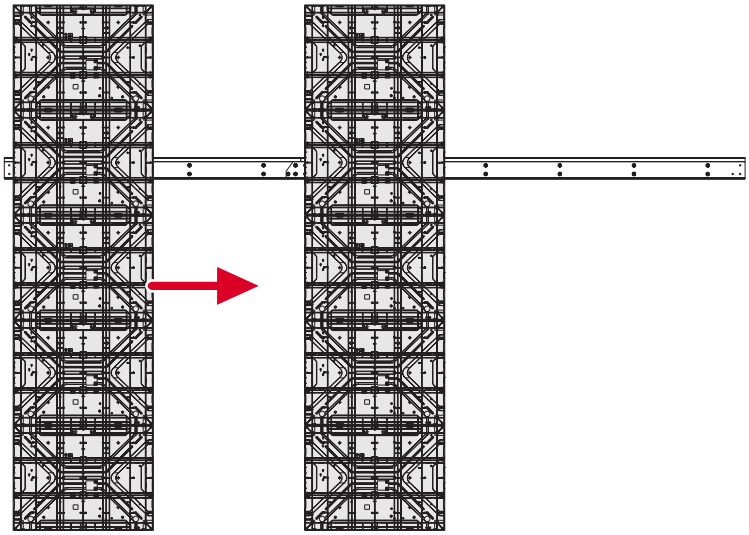
- One Cabinet weighs approximately 31 kg (68.34 lbs).
- You can identify Cabinets by the labels on the package.
- The arrow marks should be pointing up.



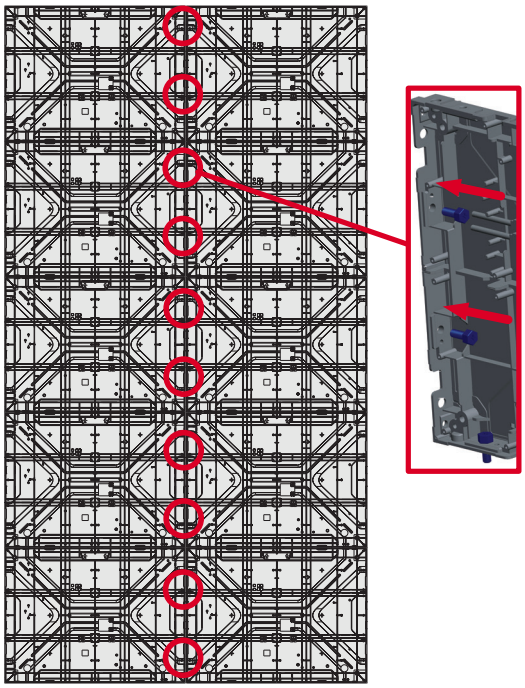
2. Ensure the Mounting Brackets sit securely on the Wall Mount Brackets as shown below.



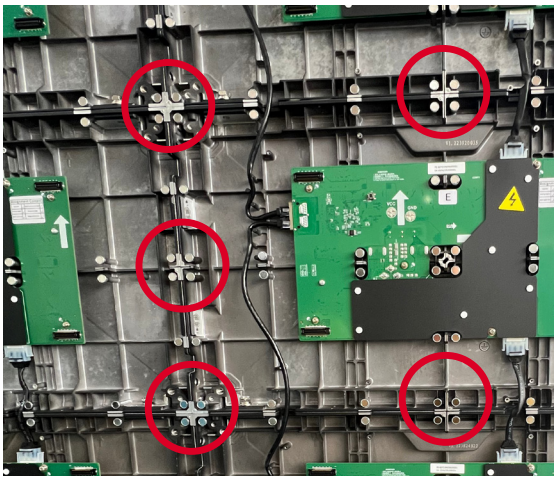
3. Lift Cabinet “B” and install it on the left side of Cabinets “C”. Install the two Cabinets together with the provided screws (M8 x 20 mm).



NOTE: There are ten screws between each Cabinet.

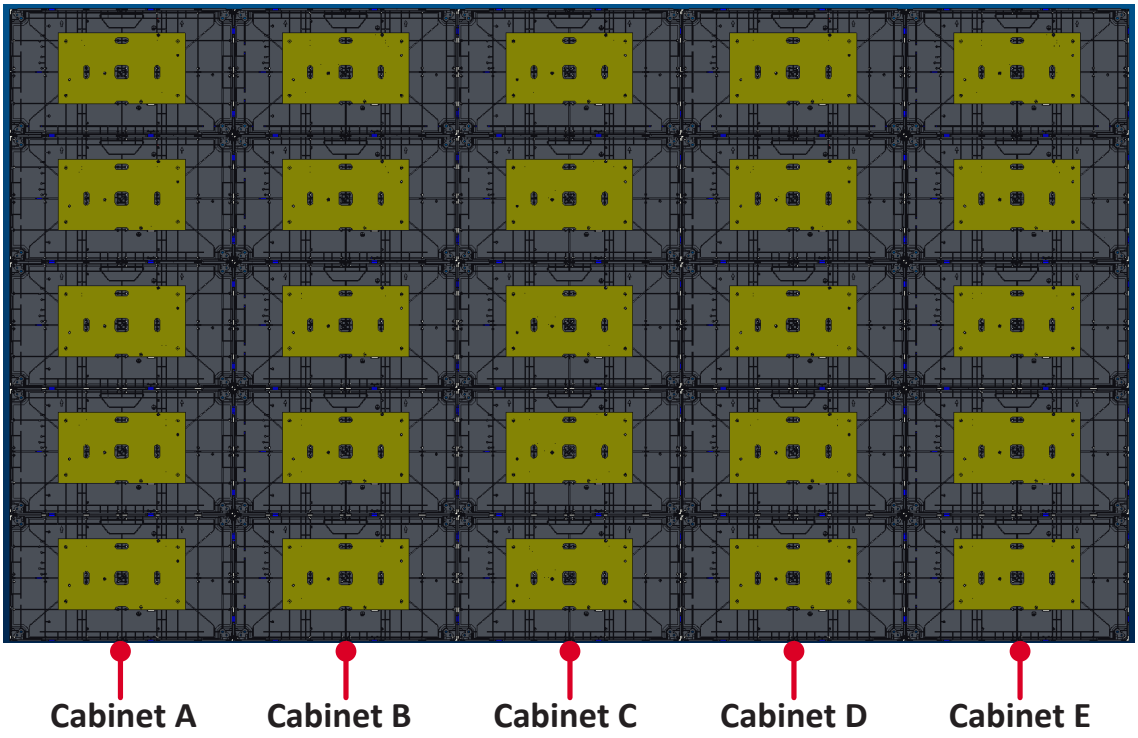


4. Check for unevenness of the Cabinets by rubbing the cross section with your fingers between each Cabinet. If the cross section is not aligned, loosen the M8 screws slightly and tap the Cabinets until the cross section is flat.

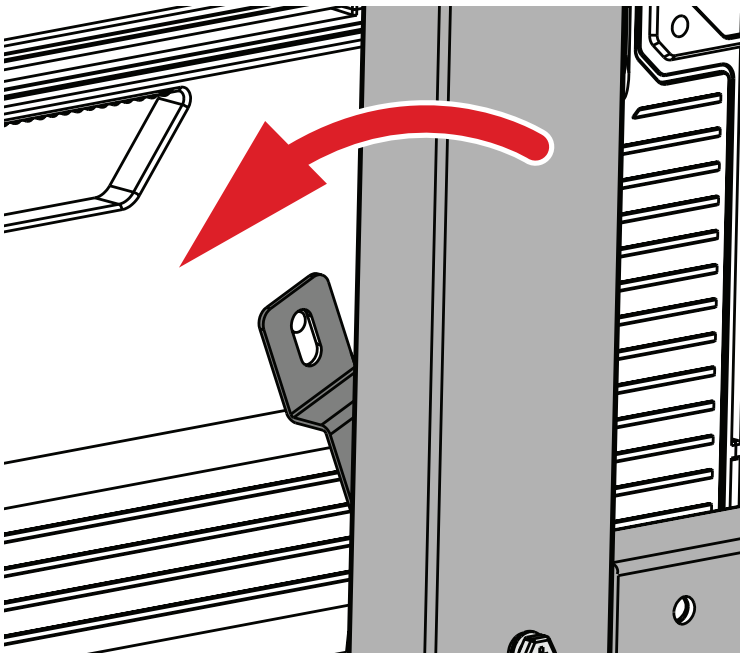


5. Place the remaining Cabinets onto the Wall Mount Brackets. Install from the center to the right and left sides of the Wall Mount Brackets.

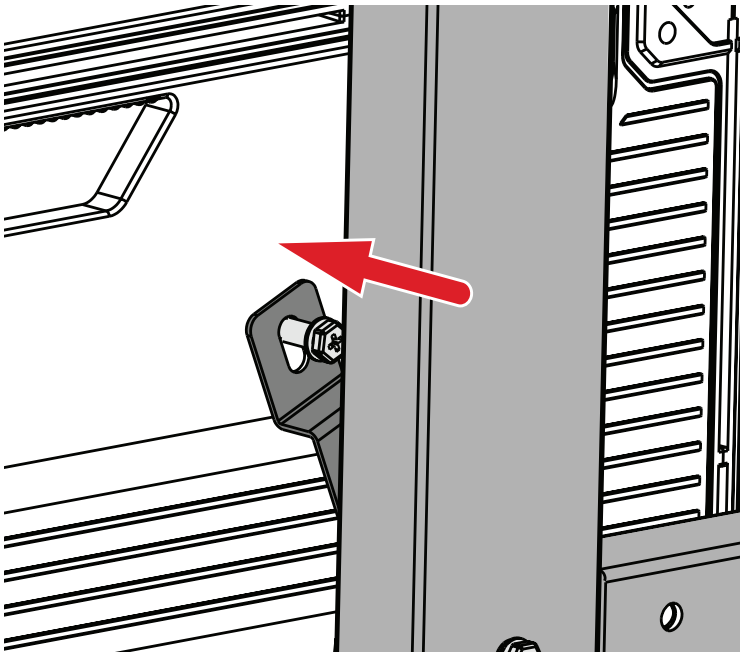
NOTE: The installation sequence by Cabinet: C ➜ B ➜ D ➜ A ➜ E



6. Adjust the left Cabinet Bracket until it is aligned with the hole provided in the Cabinet.

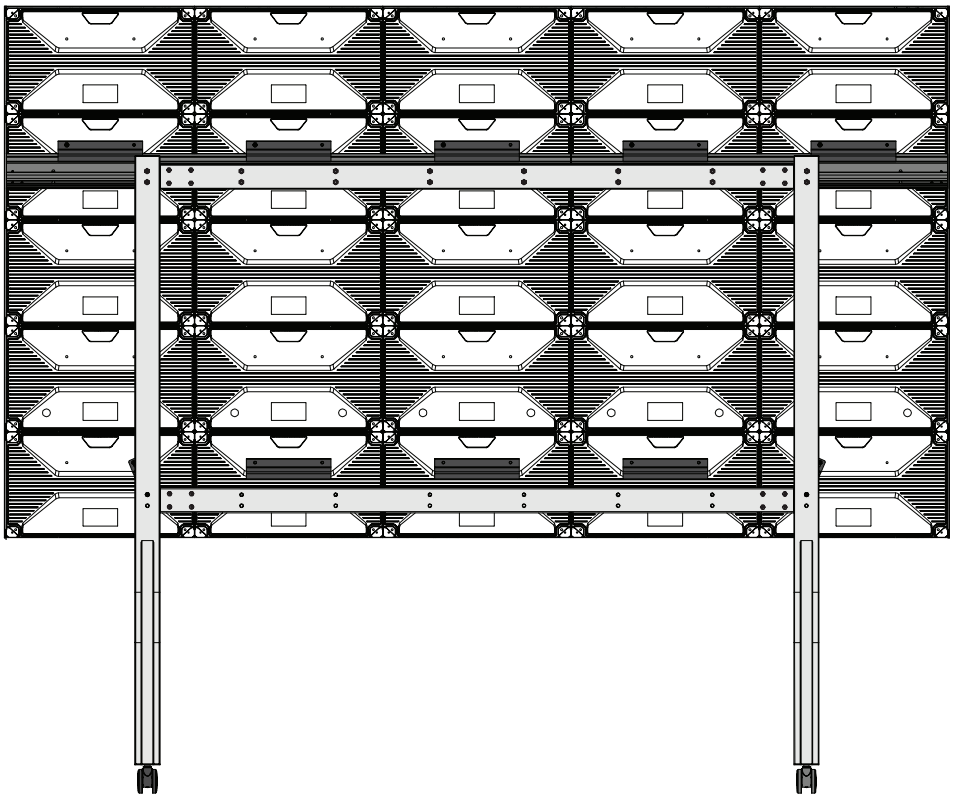


7. Secure the left Cabinet Bracket to the Cabinet with the provided screw (M8 x 20 mm).



8. Install the right Cabinet Bracket in the same manner as the left Cabinet Bracket.

9. After all Cabinets are installed, the rear review of the trolley should look like:



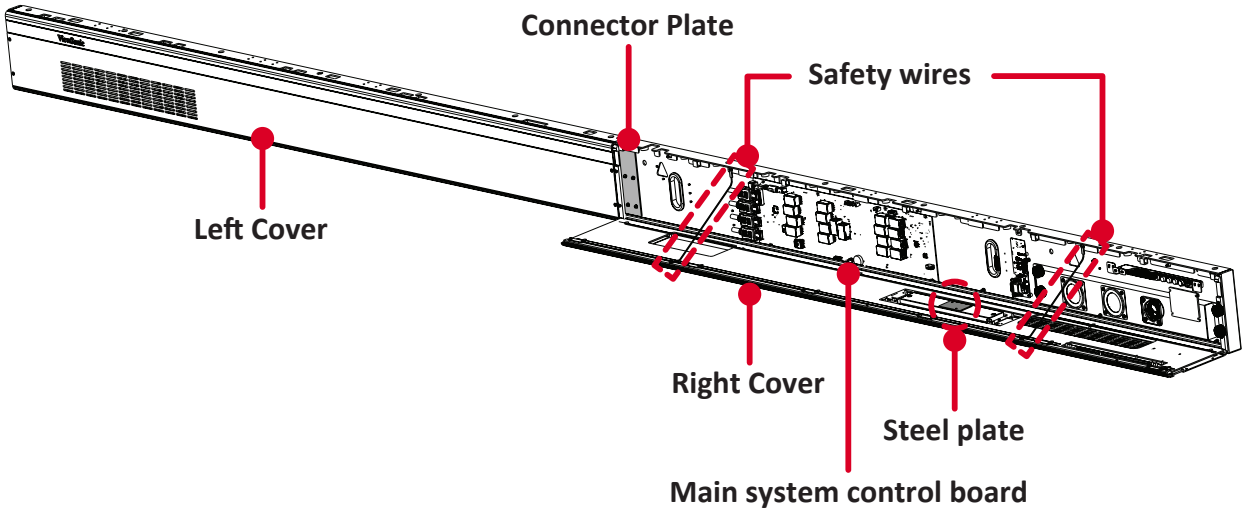
NOTE: When you use the trolley for your LED Display, the System Control Box can only be installed under the Cabinets (Standard Installation). Hidden and Separate Installation are not applicable to the trolley.

Connecting the System Control Box

NOTE: The left and right sides of the System Control Box are pre-installed with its Covers in the factory. The main system control board is on the right.

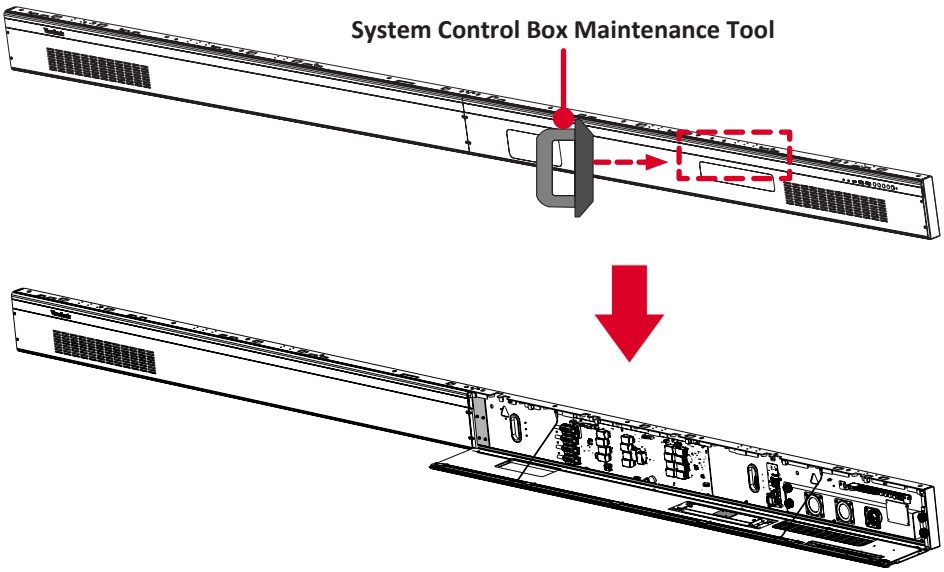
The safety wires are used to prevent the Right Cover from falling when accessing the System Control Box. Please ensure that the safety wires are never removed.

Use caution as the System Control Box panel is separated into two pieces with wires attached.

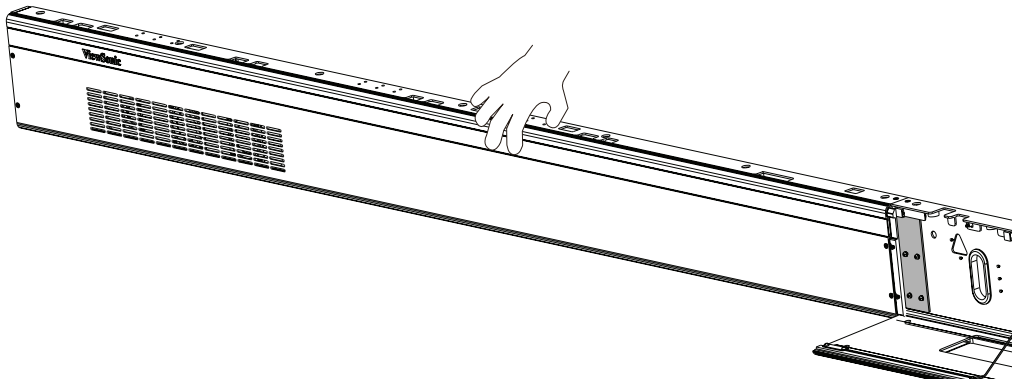


1. Carefully place the System Control Box on stable furniture that can safely support the System Control Box.
2. To open the Right Cover, slowly bring the supplied System Control Box Maintenance Tool near the surface of the Right Cover where the steel plate is located. Then, the Right Cover should detach from the System Control Box magnetically.

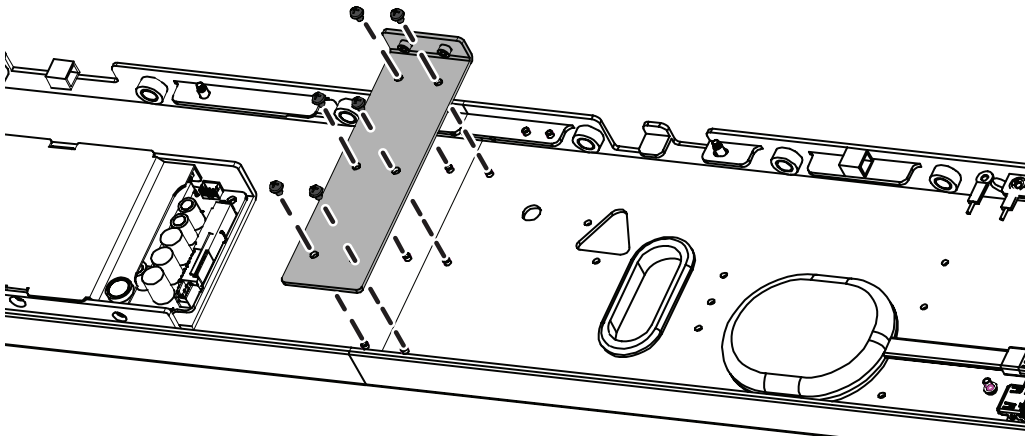
DO NOT try to remove or disconnect the safety wires. Please ensure that the safety wires are never removed.



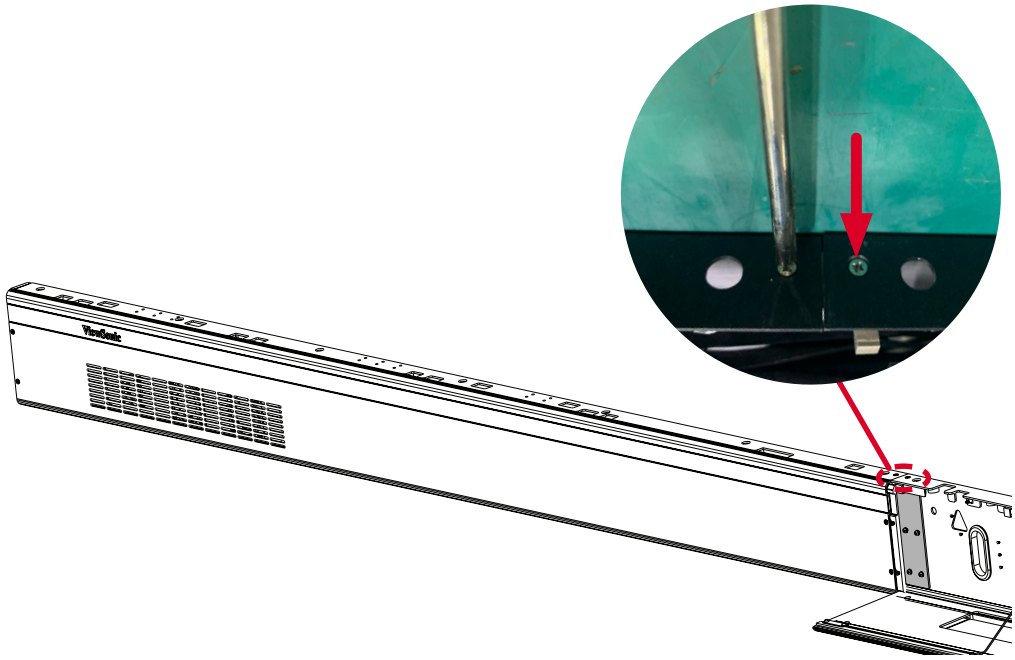
4. Remove the Left Cover by gripping the top edge of the Cover and pulling it toward you. The Left Cover should simply lift away.



5. Secure the System Control Box panel with the Connector Plate using the provided screws (M3 x 6 mm).

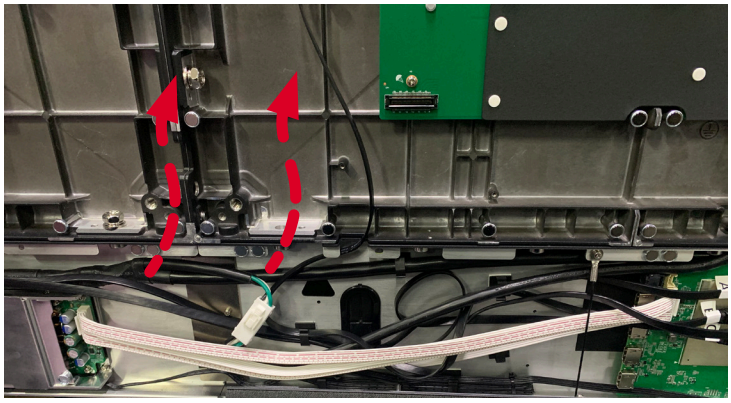


6. Further secure the Connector Plate with the two provided screws (M3 x 6 mm).



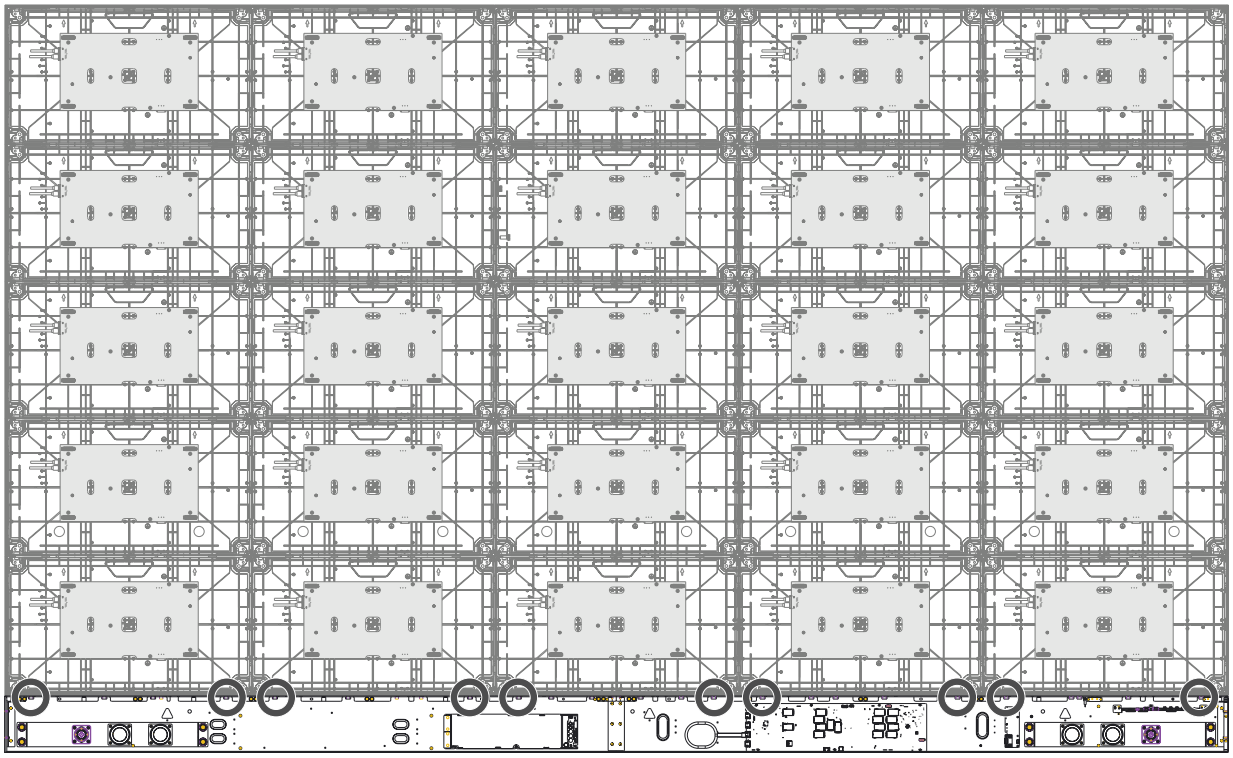
7. Align the holes of the Cabinets with the System Control Box to attach.

8. Carefully route the Power and Network Cables through the holes in each Cabinet.



9. Install the System Control Box to the bottom of the Cabinets with the provided screws (M8 x 20 mm).

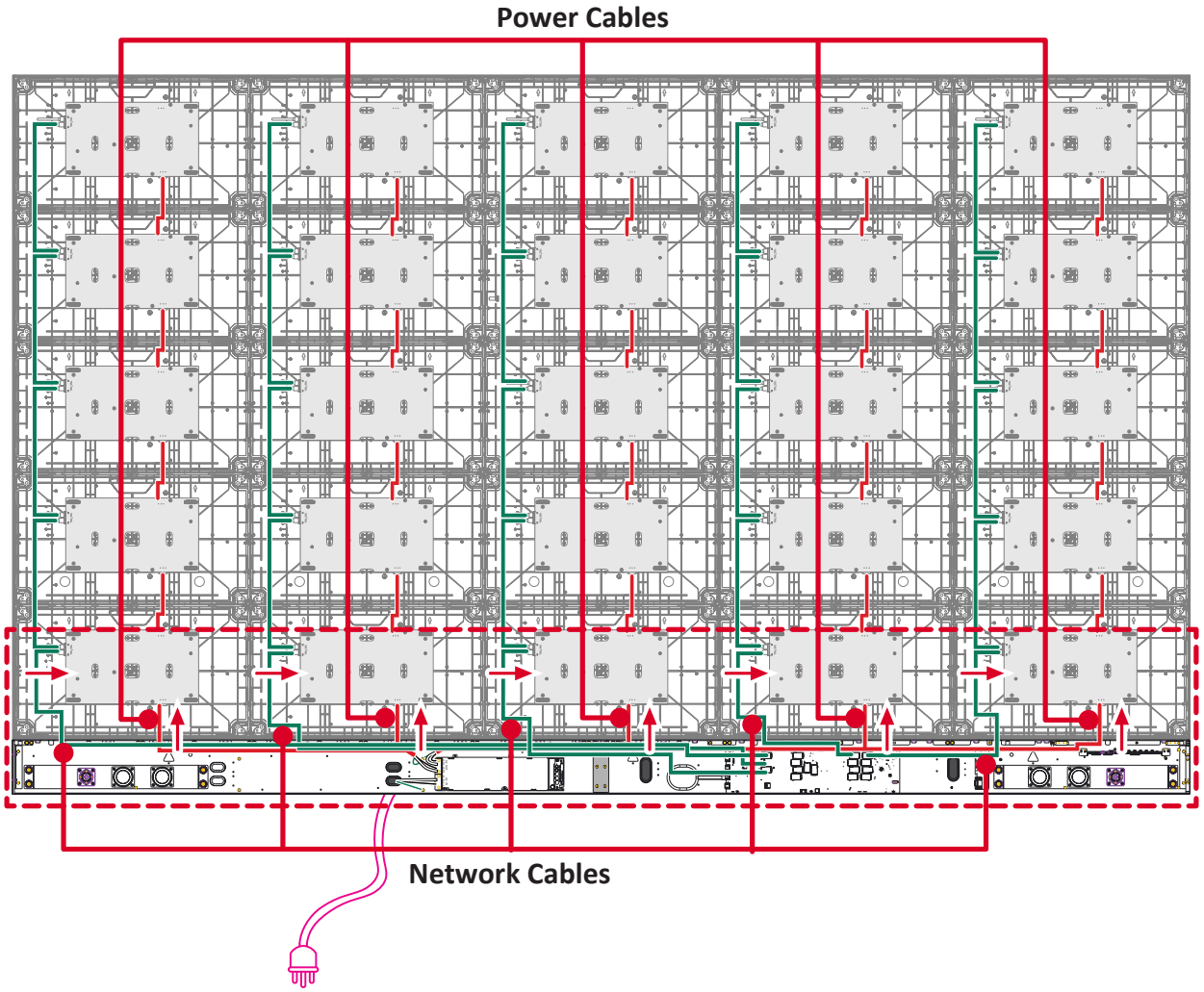
NOTE: There are ten threaded holes between the Cabinets and the System Control Box.



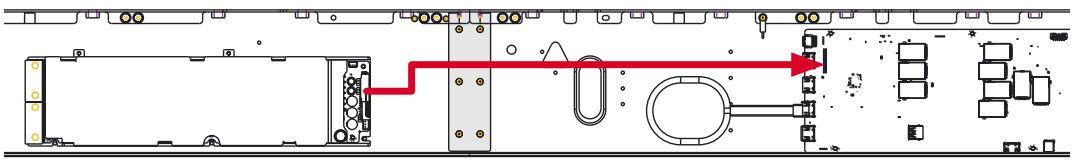
10. Connect the Power and Network Cables from the System Control Box to each Cabinet. Ensure to match the corresponding letters on the Cables to the Cabinets (A to A, B to B, C to C, and so on).

NOTE:

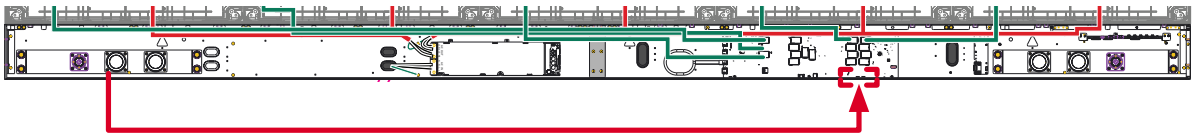
- Each Cabinet has one Power and one Network Cable to connect.
- Only the Cables at the lowest row of the Cabinets need to be connected.



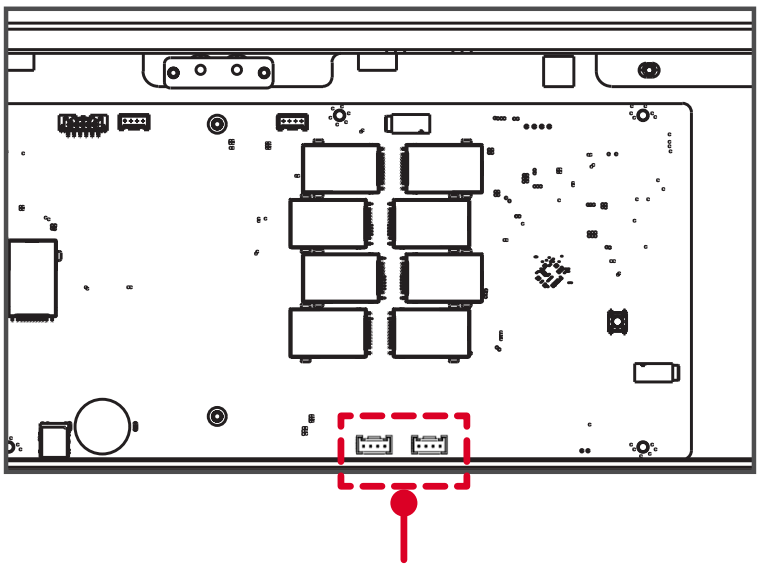
11. Connect the left system control board to the main system control board.



12. Connect the LED Display's left speaker to the Audio Out port of the system control board.

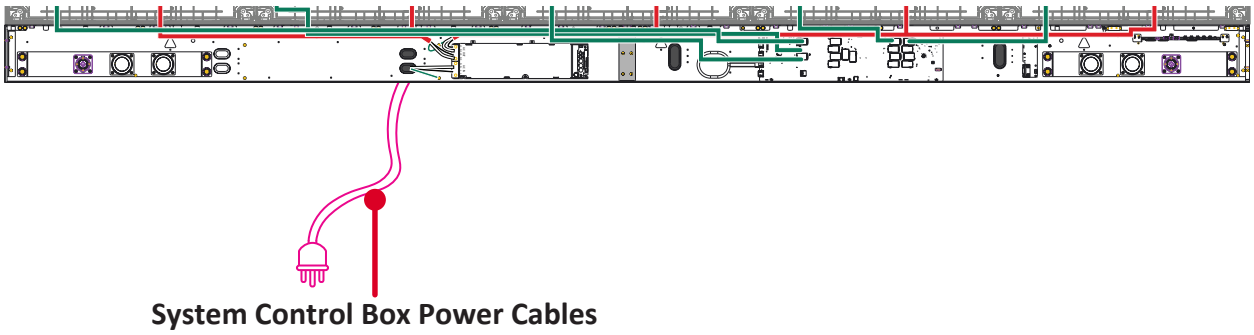


NOTE: Ensure the right speaker is properly connected to the other Audio Out port.



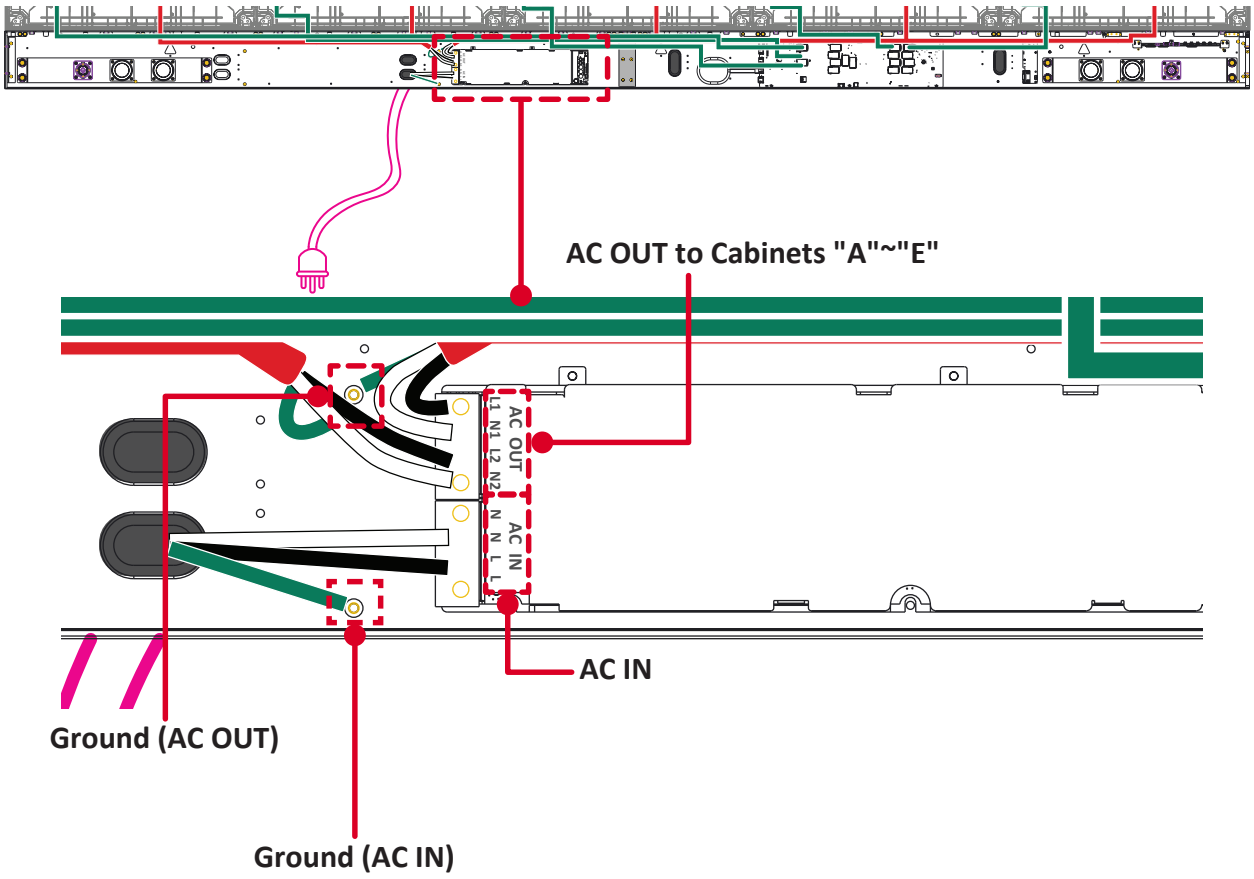
13. Ensure the AC unit of the System Control Box is properly connected.

DO NOT connect the System Control Box Power Cables at this time.



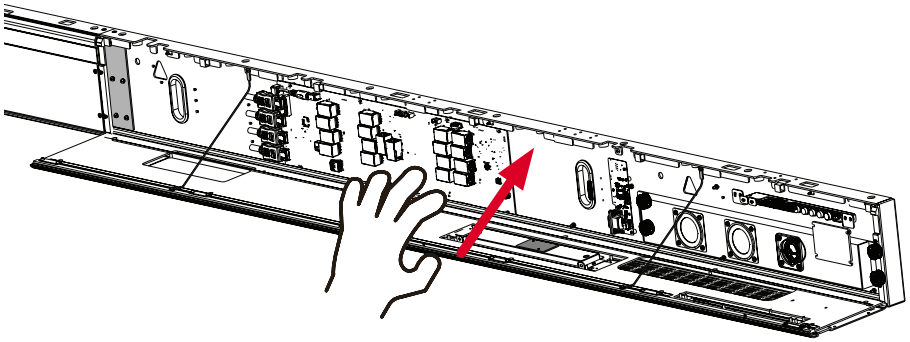
- The neutral wires (usually white/blue) are connected to the “N1”, “N2”, and “N” terminals.
- The hot wires (usually black/brown) are connected to the “L1”, “L2”, and “L” terminals.
- The input and output terminals are properly grounded (2 x AC OUT and 1 x AC IN, usually in green).

The meaning of wiring color may vary by country.



14. After connecting all Cables and wires, hold the top edge of the Right Cover toward the System Control Box to replace it. Once the Right Cover is replaced, it will be held in place magnetically.

NOTE: Ensure the Power Button cable is connected before securing the Right Cover.



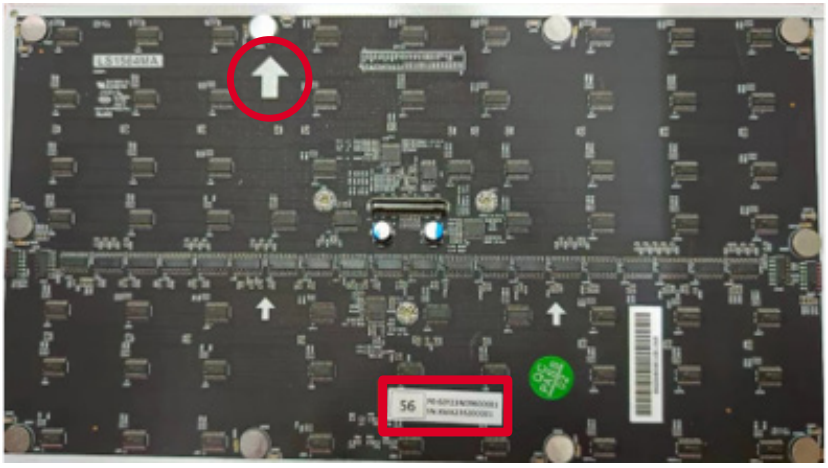
15. Replace the Left Cover by aligning it properly with the System Control Box; then the Left Cover should attach magnetically.

Installing the LED Modules

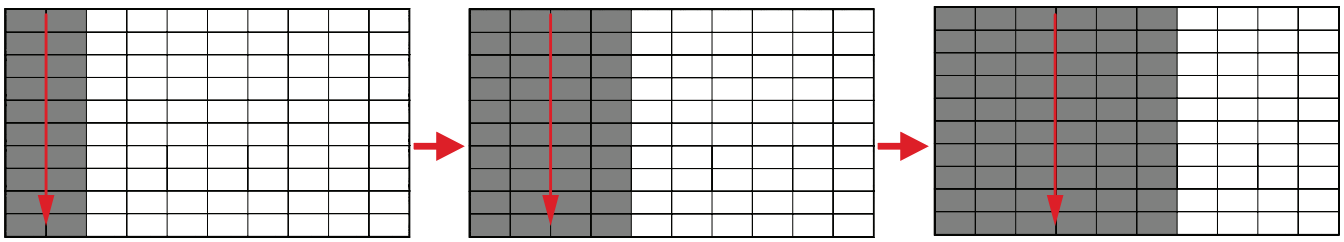
- Please wear Anti-Static Gloves before handling the LED Modules.
- To avoid direct contact with the LED Modules, please remove watches, rings, bracelets, or other metal objects.
- Use caution when installing the LED Modules.

1. Starting from the LED Module labeled “1” in the top left corner, align each LED Module with the Cabinet, then carefully press the Module into place.

NOTE: The arrow mark on the back of the LED Modules should be pointing up.



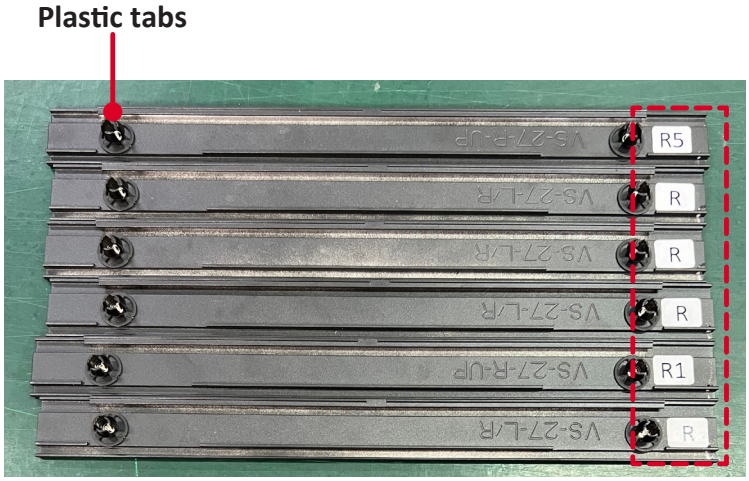
2. Attach the remaining LED Modules onto the Cabinets. Install from top left and move to bottom right, ensuring to match the corresponding numbers on the Module to the Cabinet.



NOTE: Before installing the LED Module, ensure that each Module is flush and that there is little to no gap between each. It may be necessary to gently tap the module to make it flush.

Installing the Screen Bezels

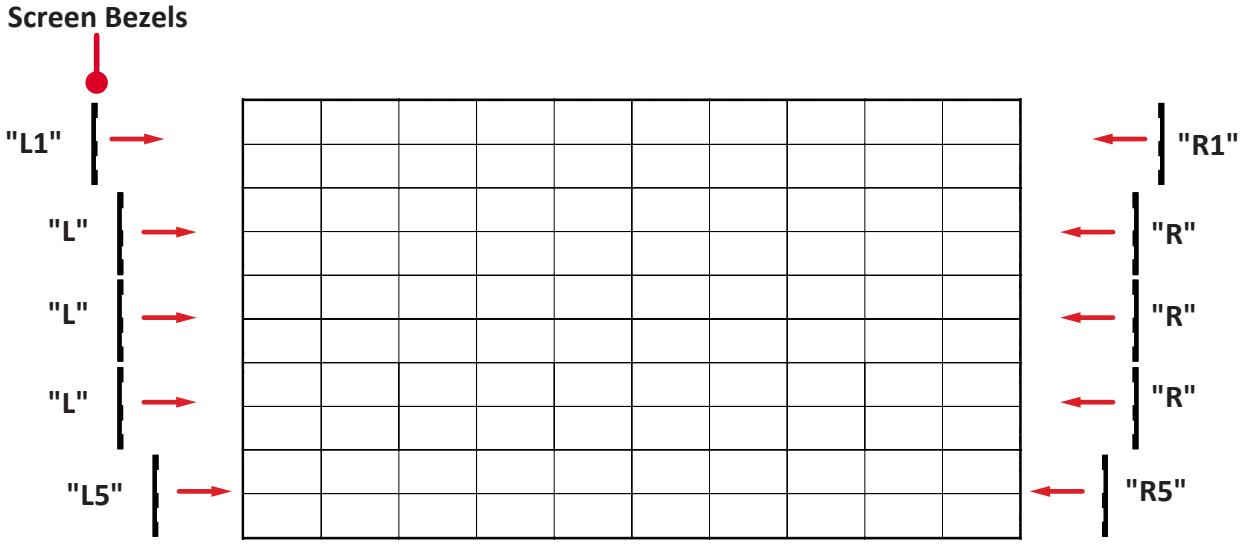
- The Screen Bezels' plastic tabs are pre-installed onto the Bezels. Ensure all plastic tabs are properly mounted before installing the Screen Bezels onto the screen.
- The label indicates the top of each Screen Bezel. To ensure the Bezels are installed in the correct position, please use the labels on the inside of the Bezels as a guide.



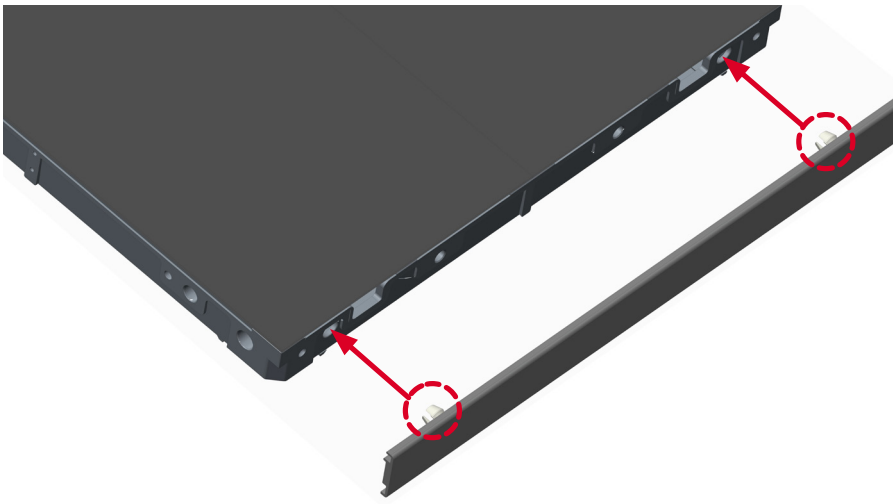
1. Place the Screen Bezels to the correct side of the screen to attach. Start from the left and move to the right.

NOTE:

- Ensure the label side of the Screen Bezel is facing the screen.
- Before installing the Screen Bezels, check the label of each Bezel as the label helps you know which side ("L" = left side & "R" = right side) to attach the Bezel.
- The illustration below shows the location where each Screen Bezel should be installed.



2. Align the plastic tabs of the Screen Bezel with the holes provided in the screen.



3. Press down on the Screen Bezel until you hear it click into place.

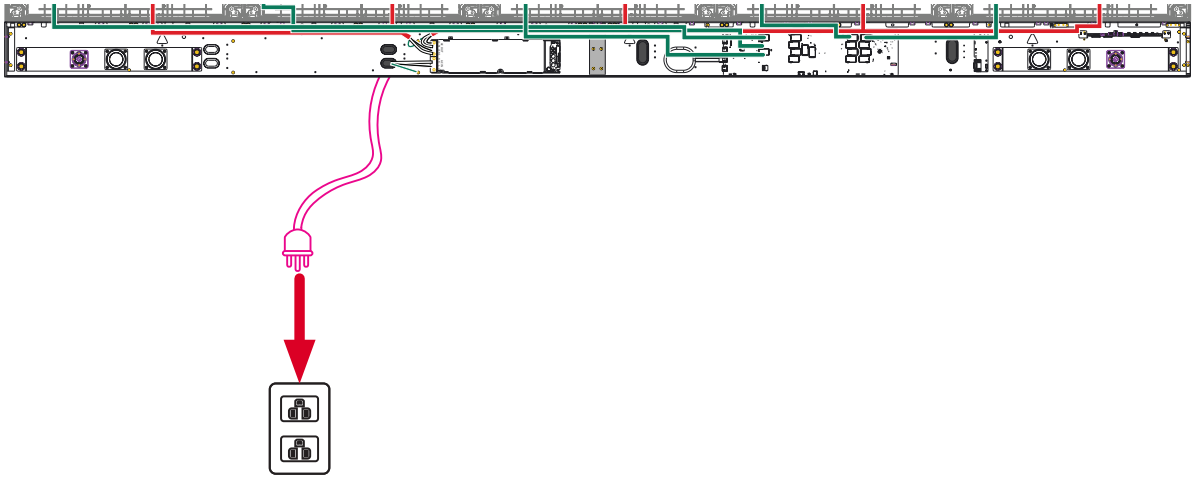
4. Place the remaining Screen Bezels onto the left and right sides of the screen.

NOTE: There are five Screen Bezels on either left or right side of the screen to install.

Turning On the LED Display

1. Make sure the System Control Box Power Cable is connected and plugged into a power outlet.

NOTE: When the System Control Box Power Cable is connected to a power outlet, the Power Indicator Light will be a steady red. This means the LED Display is in standby mode. Please refer to the User Guide for more details.



2. Your LED Display is now ready to power on.

Making Connections

Connecting to Video

HDMI



Connect an HDMI cable from your external device to the **HDMI 1**/**HDMI 2**/**HDMI 3**/**HDMI 4** port on the display.

NOTE: The **HDMI 1**/**HDMI 2**/**HDMI 3** port is accessed by removing the System Control Box Cover.

HDMI Out

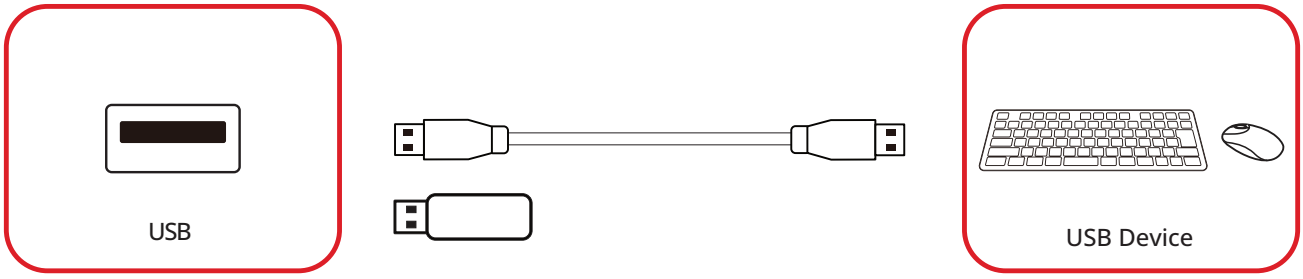


To output video via an external display device, connect an HDMI cable to the **HDMI IN** port of your external display device, and the other end to the **HDMI OUT** port of the display.

NOTE: The **HDMI OUT** port is accessed by removing the System Control Box Cover.

USB Connection

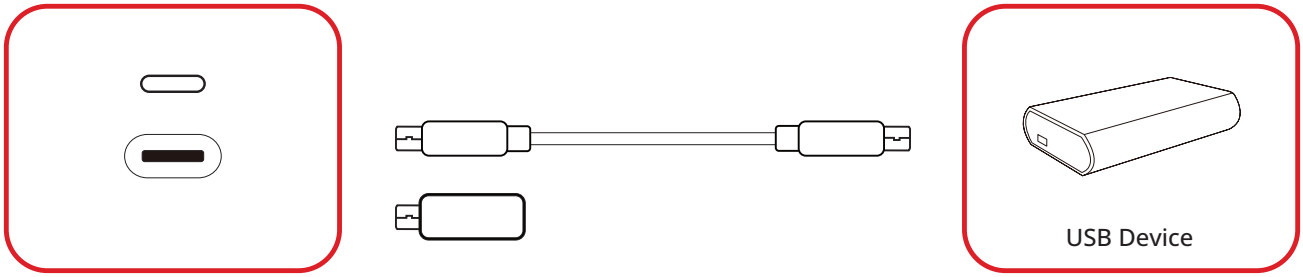
USB Type A



Plug the USB device or storage drive into a USB Type A (**USB 3.0** or **USB 2.0**) port on the display's control panel.

NOTE: An additional USB Type A port can be accessed by removing the System Control Box Cover; however, it is for power transfer only (5V/0.5A).

USB Type C



Plug the USB device or storage drive into the USB Type C (⬭) port on the display's control panel.

NOTE: The USB Type C port is for data transfer only.

Network Connection

LAN



To connect to a network, connect an Ethernet cable to your network, then connect the other end to the **LAN** port of the display.

NOTE: The **LAN** port is accessed by removing the System Control Box Cover.

Control Connection

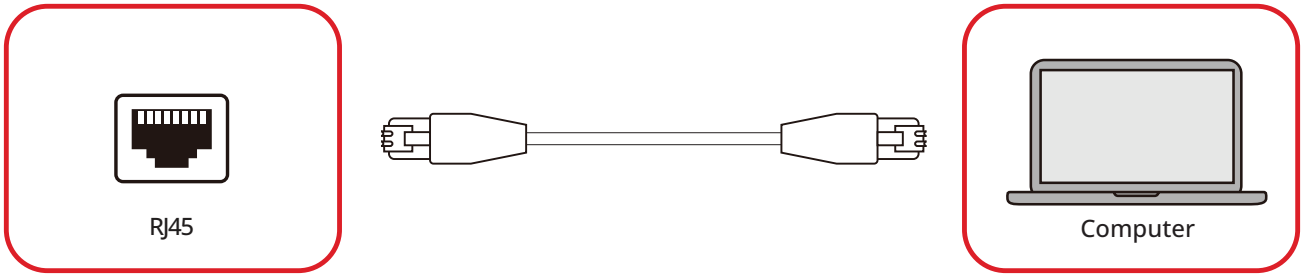
RS-232 (DB 9-pin)



When you use a RS-232 serial cable to connect the display to an external computer or control system, certain functions can be controlled remotely such as: power on and off, volume adjustment, input select, brightness, and more.

NOTE: The **RS-232** port is accessed by removing the System Control Box Cover.

RJ45 (LAN)



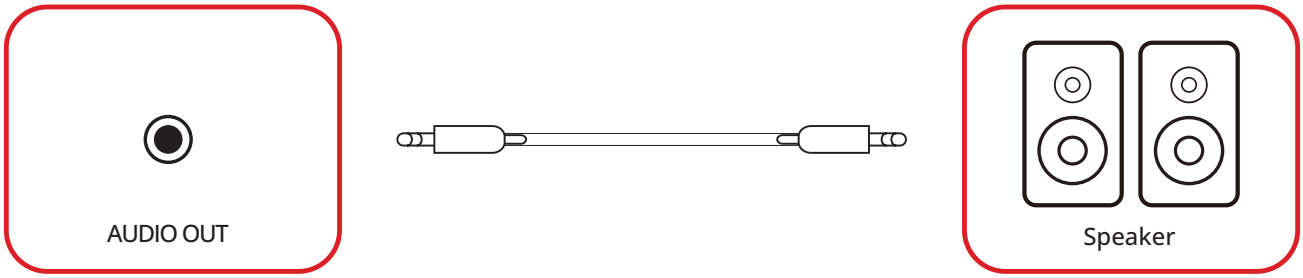
When you use an Ethernet cable to connect the display to an external computer or control system, certain functions can be controlled remotely such as: power on and off, volume adjustment, input select, brightness, and more.

NOTE: The **RJ45** port is accessed by removing the System Control Box Cover.

Audio Connection

Audio Out

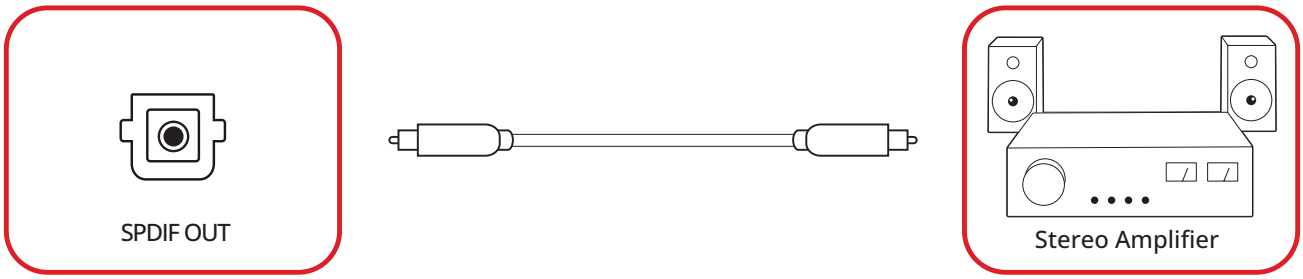
To play audio from the display through an external speaker, connect one end of an audio cable to the external speaker, and the other end to the display's **Audio Out** port.



NOTE: The display is equipped with two **Audio Out** ports, one can be accessed externally, while the other is accessed by removing the System Control Box Cover.

SPDIF

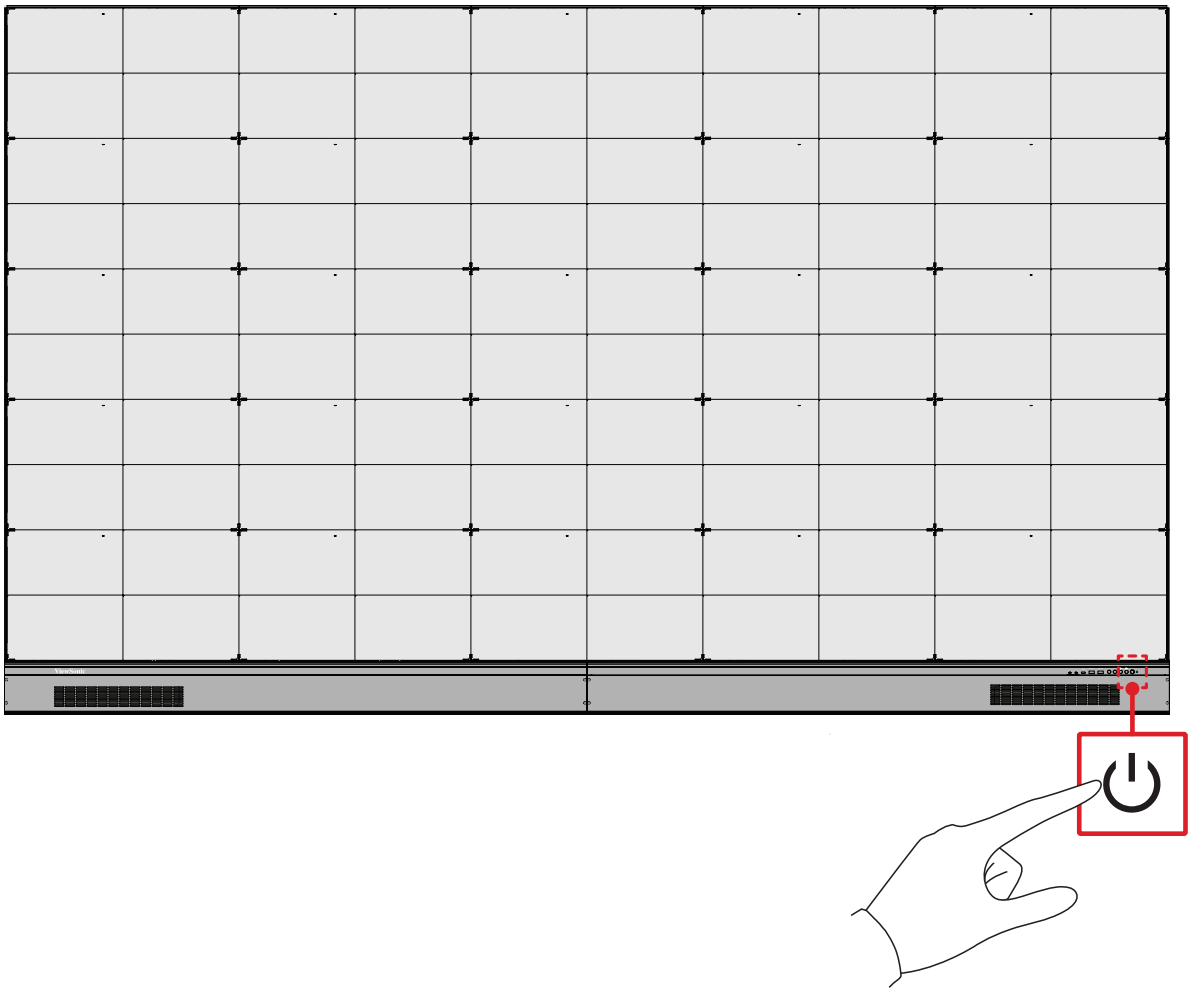
To play audio from the display through an external speaker, connect one end of an optical cable to the external speaker, and the other end to the display's **SPDIF Out** port.



NOTE: The **SPDIF Out** port is accessed by removing the System Control Box Cover.

Using Your Display

Turning the LED Display On/Off

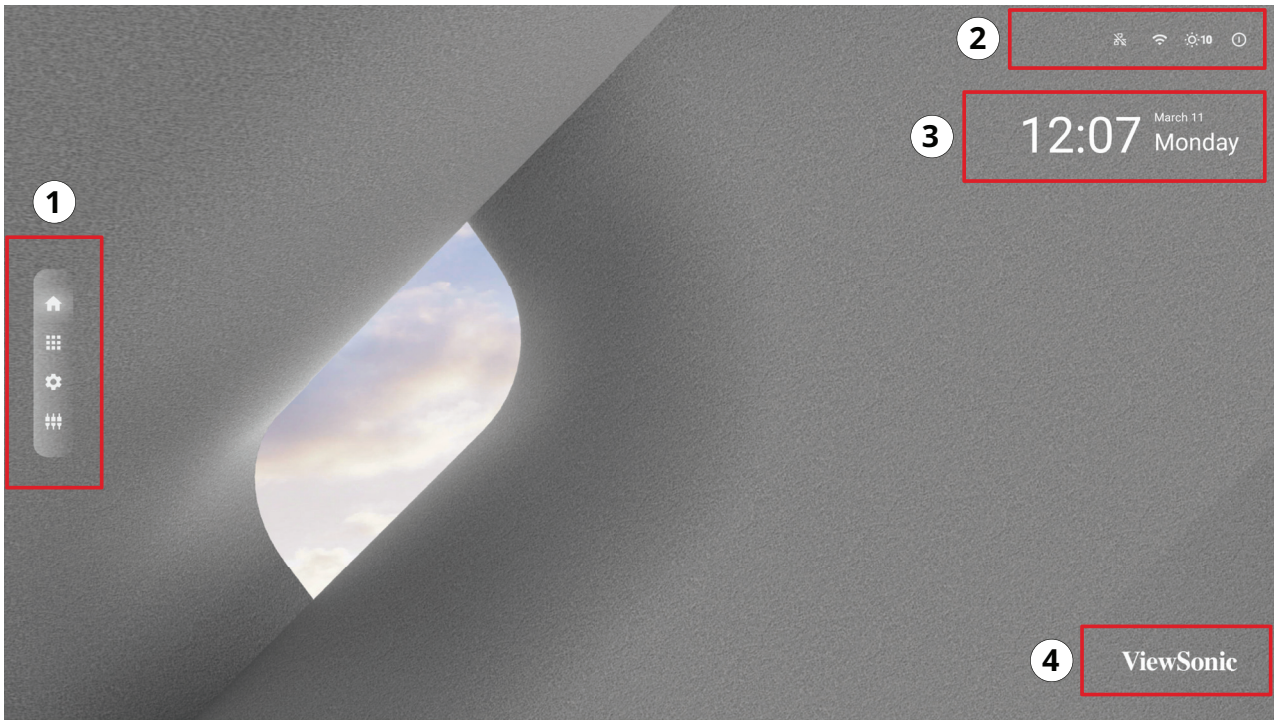


1. Make sure the power cord is connected and plugged into a power outlet.

2. Press the ⏻ **Power** button to turn on the display.

3. To turn the display off, press the ⏻ **Power** button again.

Home Screen

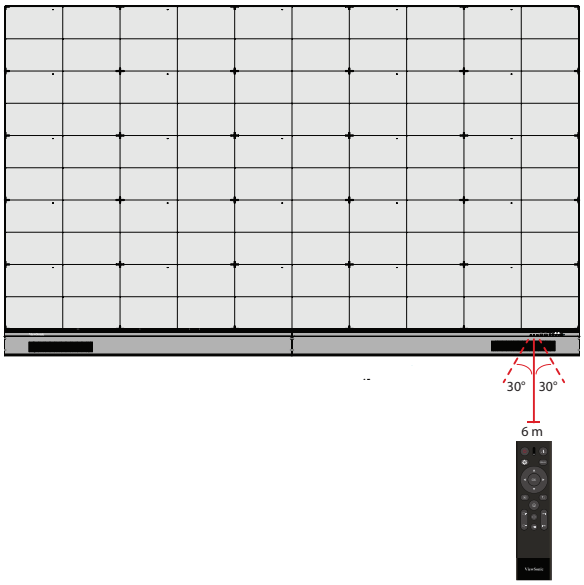


Number	Item	Description
1	Main Menu	Access the Home Screen, App Center, Settings, and Input Source.
2	Quick Access	Quick access to WAN/LAN, Wi-Fi, Brightness, and Power. **NOTE:** Only supported by keyboard and mouse.
3	Date & Time	Adjust and show or hide the Date & Time by going to: **Settings > Device > Launcher Settings**
4	ViewSonic Logo	Show or hide the logo by going to: **Settings > Display > Launcher Settings**

Navigating the Home Screen

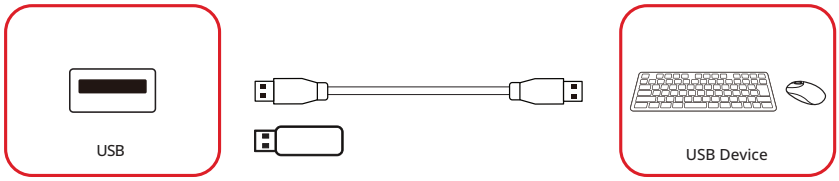
Remote Control

The remote control can be used to easily navigate the Home Screen. When using the remote control, ensure it is kept within the IR receiver range as shown below:

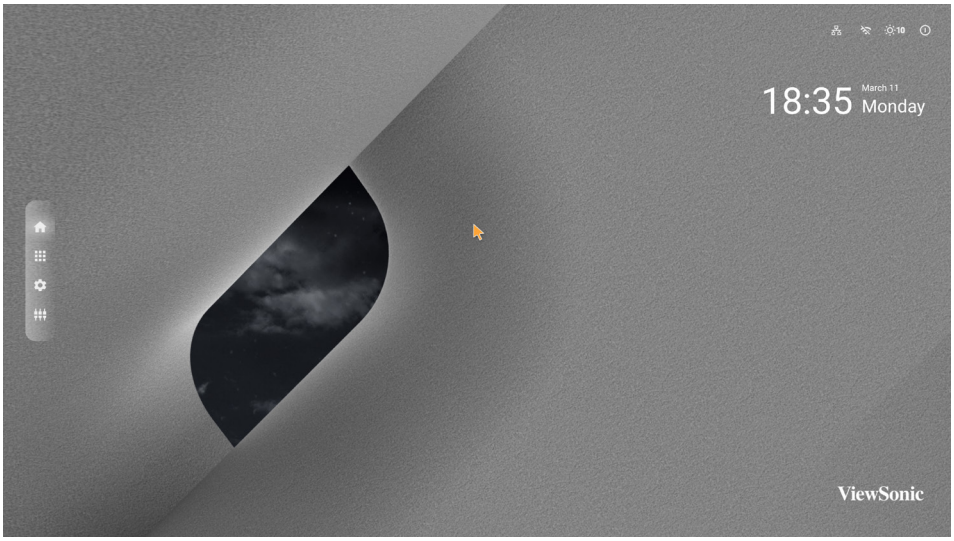


Keyboard and Mouse

When connected to the USB Type A port of the display, a keyboard and mouse can also be used to navigate the Home Screen.



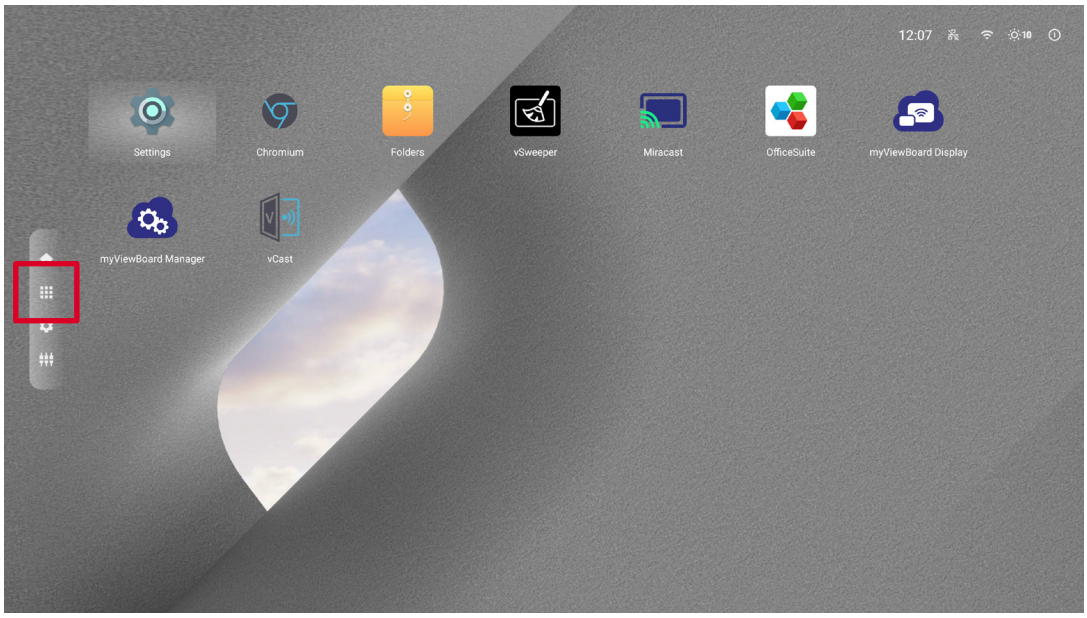
An orange mouse pointer will appear on the display when used.



- The left mouse button will confirm actions.
- The right mouse button will go back to the previous layer.

App Center

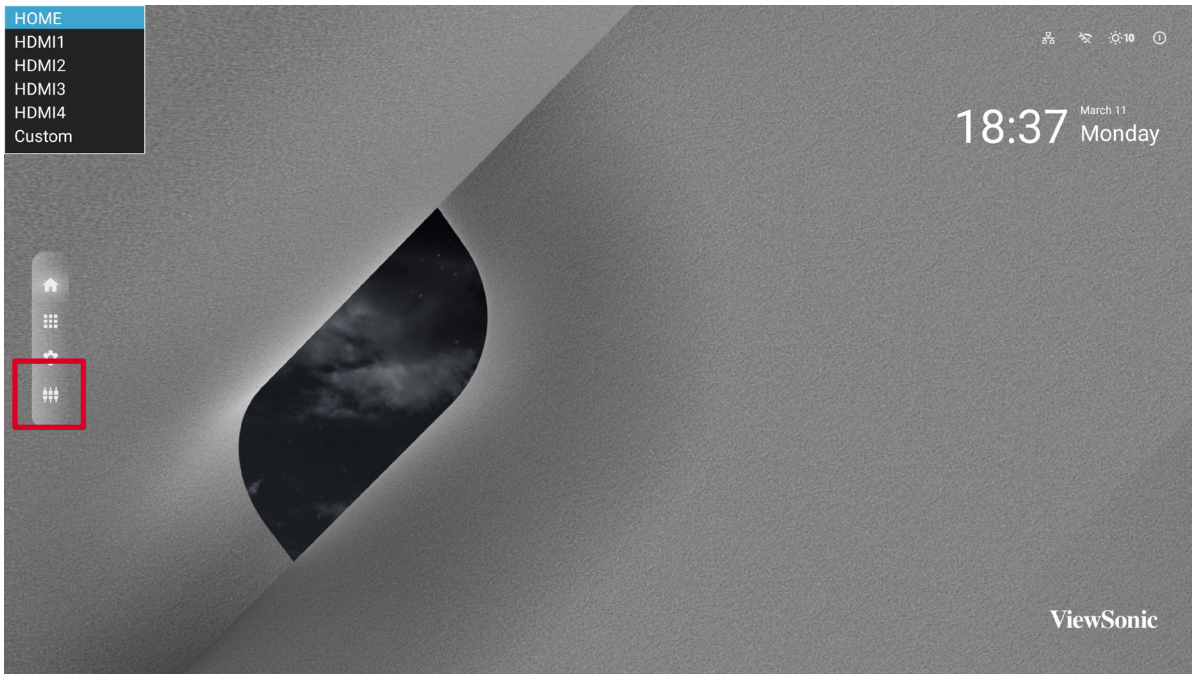
Installed applications will be in the App Center.



Icon	Name	Description
	Settings	Adjust and view the display's settings.
	Chromium	Web browser.
	Folders	File explorer.
	vSweeper	Resource management tool.
	Miracast	Wireless screen mirroring.
	OfficeSuite	Create documents, spreadsheets, and presentations.
	myViewBoard Display	Wirelessly mirror your desktop.
	myViewBoard Manager	Remote device management.
	vCast	Receive casted content from other devices.

NOTE: Pre-installed applications are subject to change without notice.

Input Source

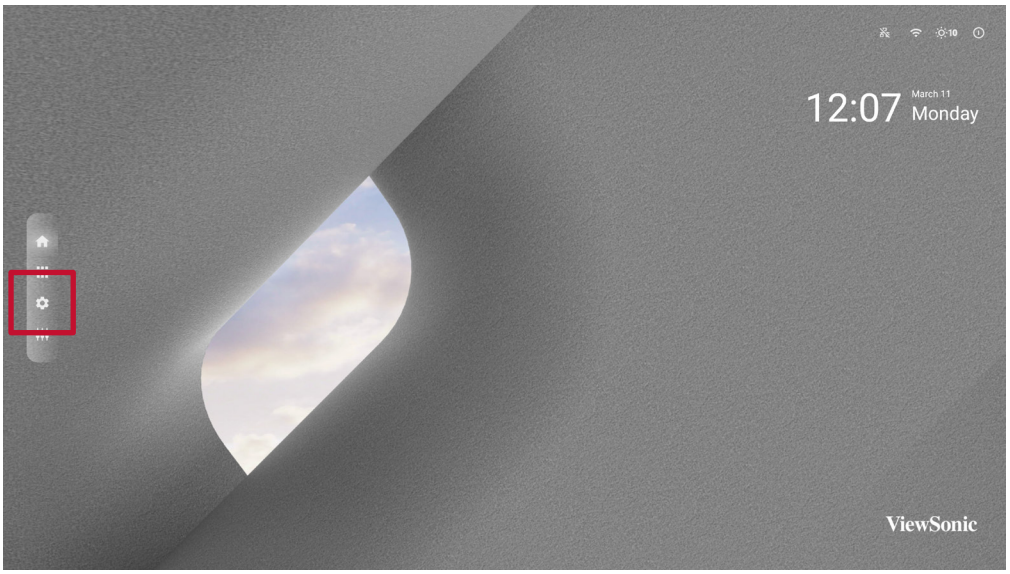


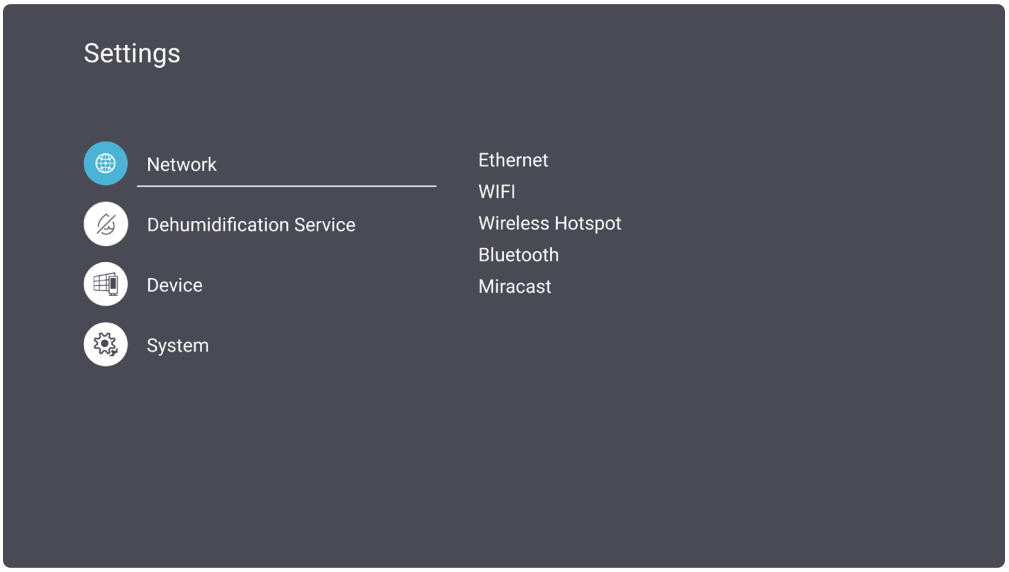
The display supports eight input sources: **Home**, **HDMI 1**, **HDMI 2**, **HDMI 3**, **HDMI 4**, and **Custom**.

NOTE: The **Custom** input source is used to quickly access custom applications. To select the custom application, go to: **Settings** > **Device** > **Signage Display** > **Custom App**.

Settings

Adjust and view the display's settings.





Menu	Description
Network	View and adjust Ethernet, Wi-Fi, Wireless Hotspot, Bluetooth, and Miracast settings.
Dehumidification Service	View and adjust dehumidification settings and start the dehumidification process.
Device	View and adjust Signage Display, System Tools, Display, Apps, Audio, Physical Keyboard, Input method, and Launcher settings.
System	View and adjust Date & Time and About settings.

Settings Menu Tree

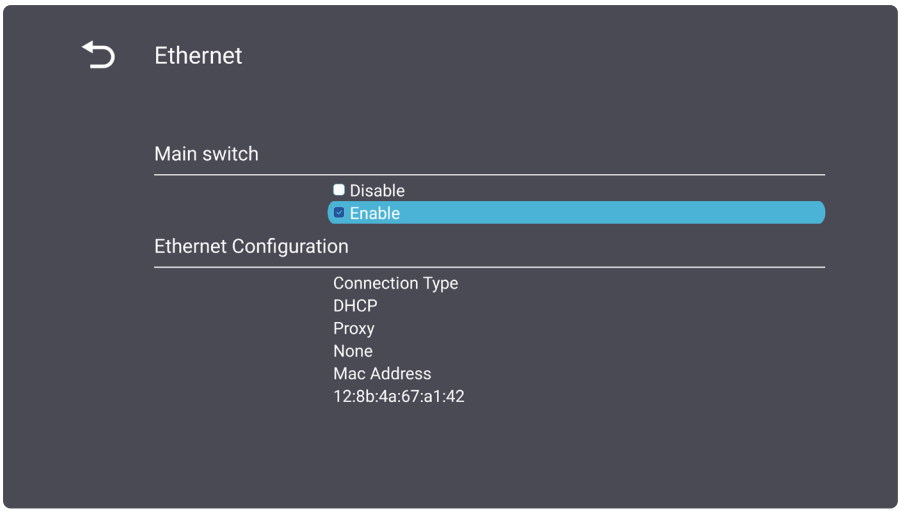
Main Menu	Sub-menu	Menu Option	
Network	Ethernet	Main Switch	Disable
			Enable
		Ethernet Configuration	Connection Type
			Mac Address
	Wi-Fi	Disable	
		Enable	
		Add Wi-Fi	
	Wireless Hotspot	Main Switch	Disable
			Enable
		Hotspot Configuration	Network Name
			Security Type
	Bluetooth	Bluetooth	Disable
			Enable
		Available Device	
	Miracast	Main Switch	Disable
			Enable
		Detail	Name
Dehumidification Service	Dehumidification Settings	Dehumidification Level	Shutdown
			Low
			Middle
			High
	Begin Dehumidification Now		

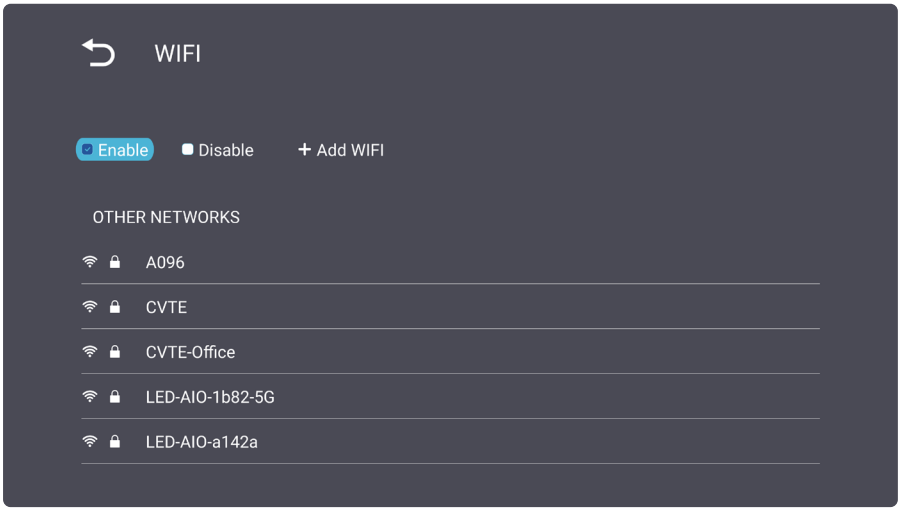
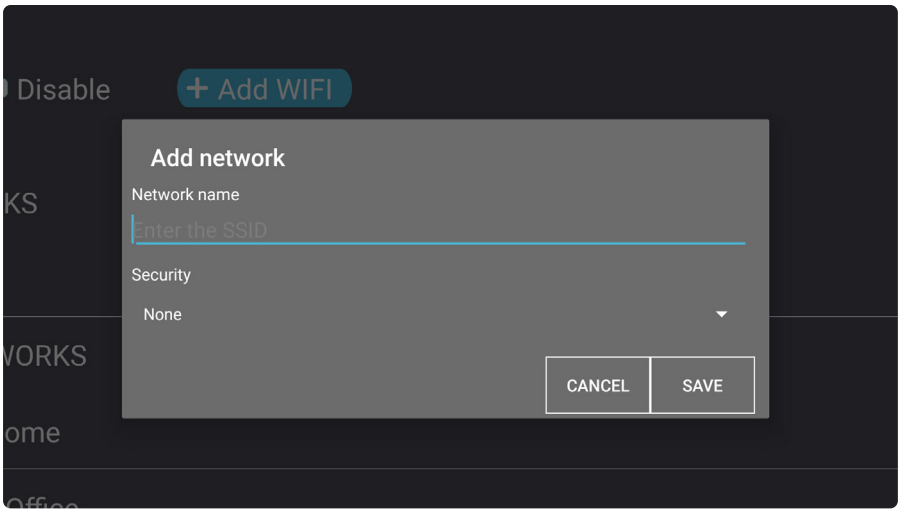
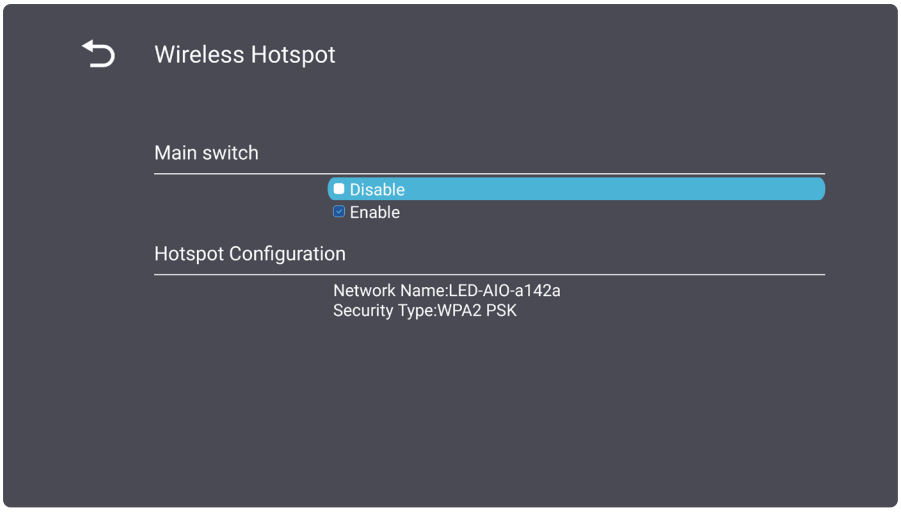
Main Menu	Sub-menu	Menu Option	
Device	Signage Display	General Settings	Signage Display Name
			Boot Logo
		Source Settings	Custom App
		Credential Settings	Trusted Credentials
			User Credentials
			Install from Storage
			Clear Credentials
		Security	External Storage
			Unknown Sources
			Privacy and Copyright Protection
			App Authority
	System Tools	Clear Storage	All
			Internal Storage
			USB Storage
		Reset	Factory Reset
		Import & Export	Export Signage Display Settings
			Import Signage Display Settings
		Clone	Clone Media Files
	Display	Font Size	
		Screen Saver	
	Apps	Running	
		All	
		Download	
	Physical Keyboard		
	Launcher Settings	ViewSonic Logo	On
			Off
		Date & Time	On
			Off
		Theme	
	Input Method		

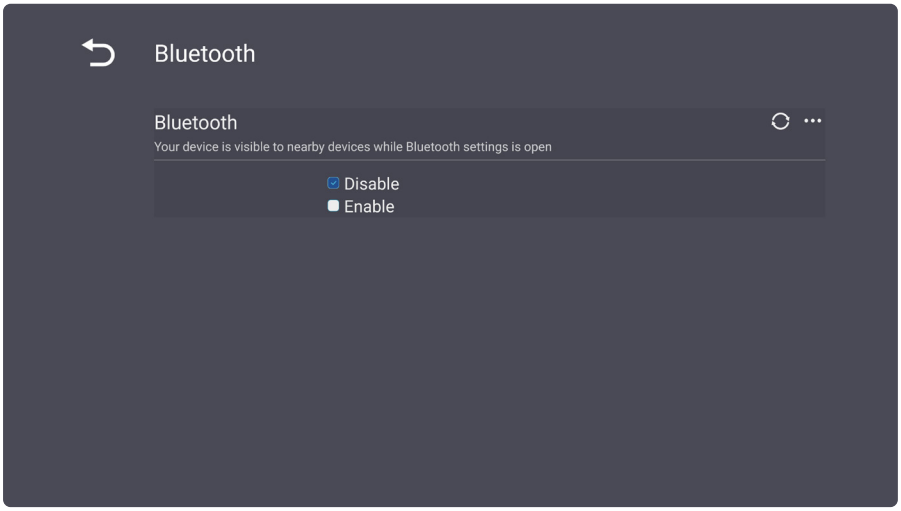
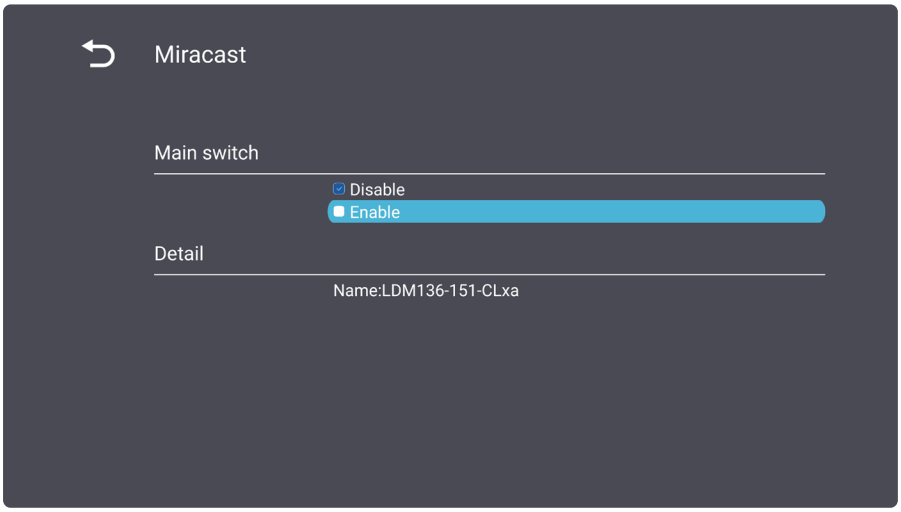
Main Menu	Sub-menu	Menu Option	
System	Date & Time	Select Time Zone	
		NTP Server	
	About	Local System Updates	
		Online System Updates	
		Asset Tagging	
		Legal Information	
		Android Version	
		Kernel Version	
		Build Number	
		Operation Hours	

Network

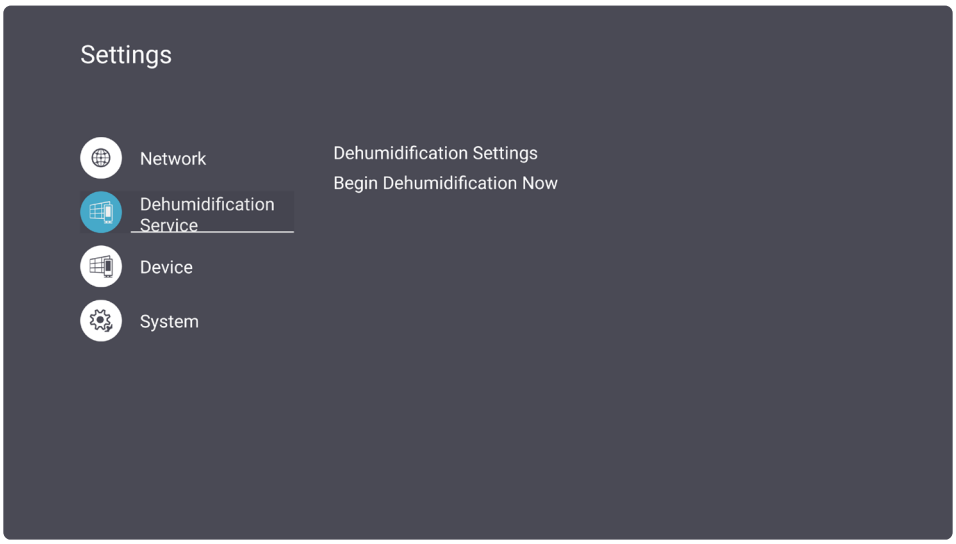


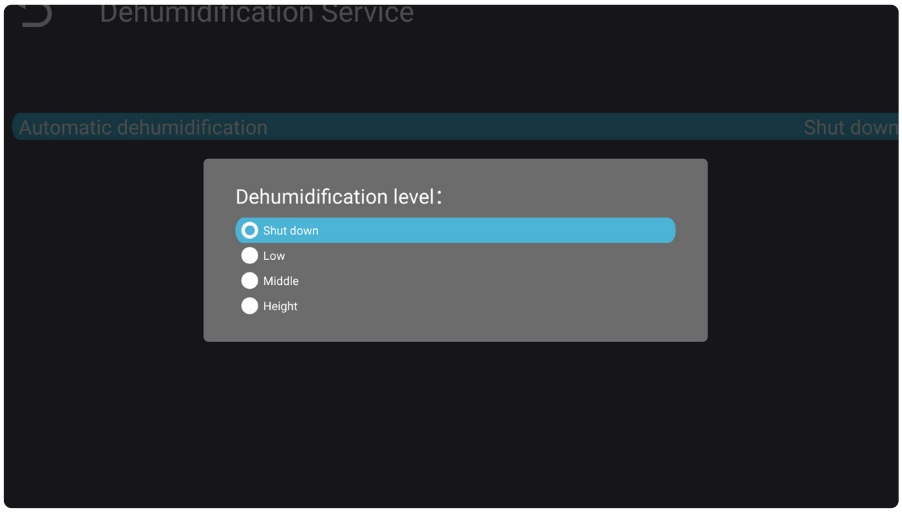
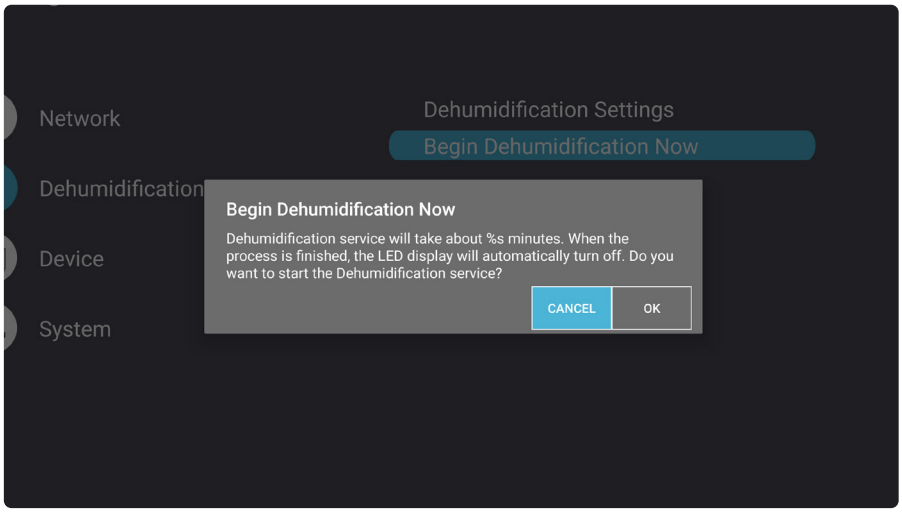
Sub-menu	Description
Ethernet	Enable or disable Ethernet and configure it. 

Sub-menu	Description
Wi-Fi	Open the Wi-Fi selection interface to enable or disable Wi-Fi and connect to a Wi-Fi network.  You can also select **Add Network** in the Wi-Fi selection screen to manually add a Wi-Fi network. 
Wireless Hotspot	Enable or disable Wireless Hotspot. Once enabled, the hotspot name will be displayed and can be connected to. 

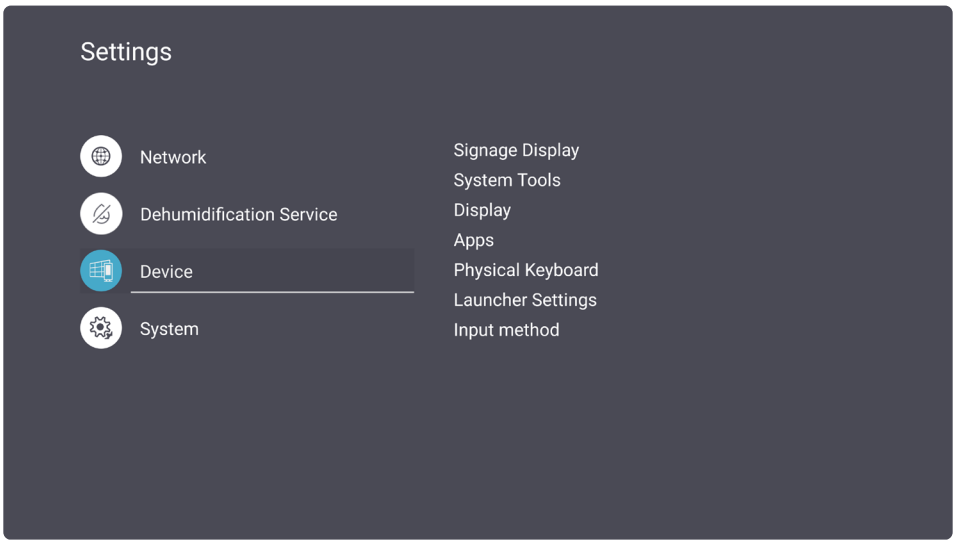
Sub-menu	Description
Bluetooth	Enable or disable Bluetooth. Once enabled, available devices will be displayed and can be connected to.  **NOTE:** The volume of a connected Bluetooth speaker cannot be adjusted with the remote control.
Miracast	Enable or disable Miracast. 

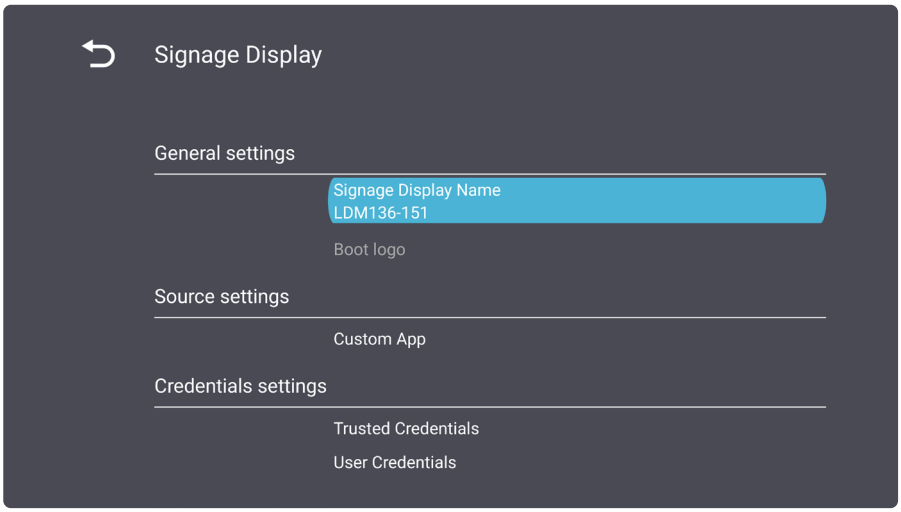
Dehumidification Service

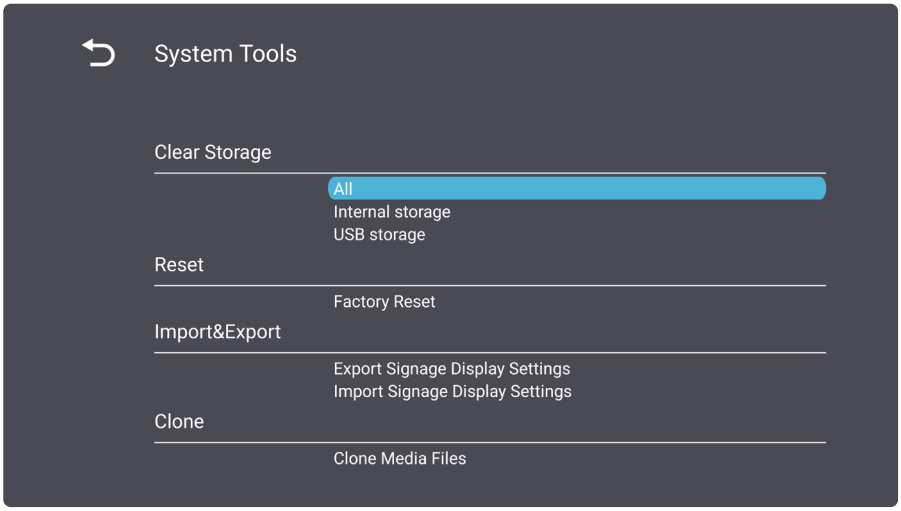
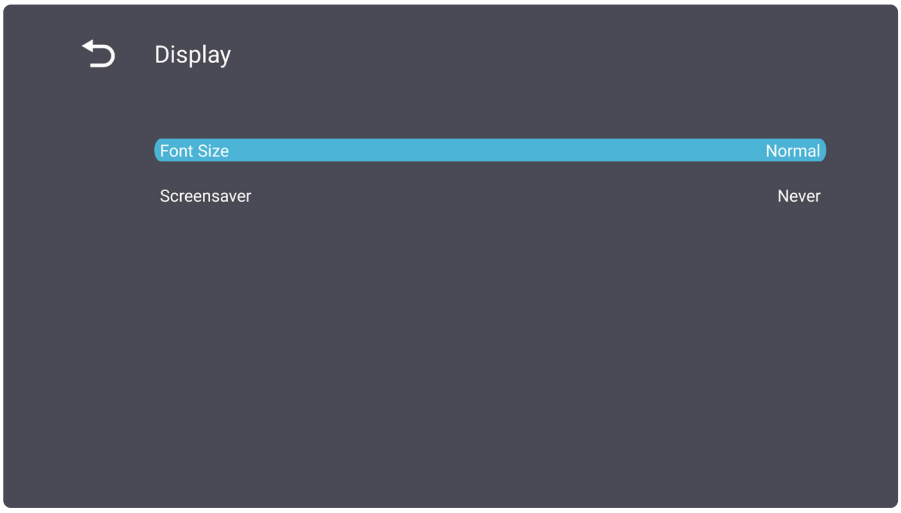


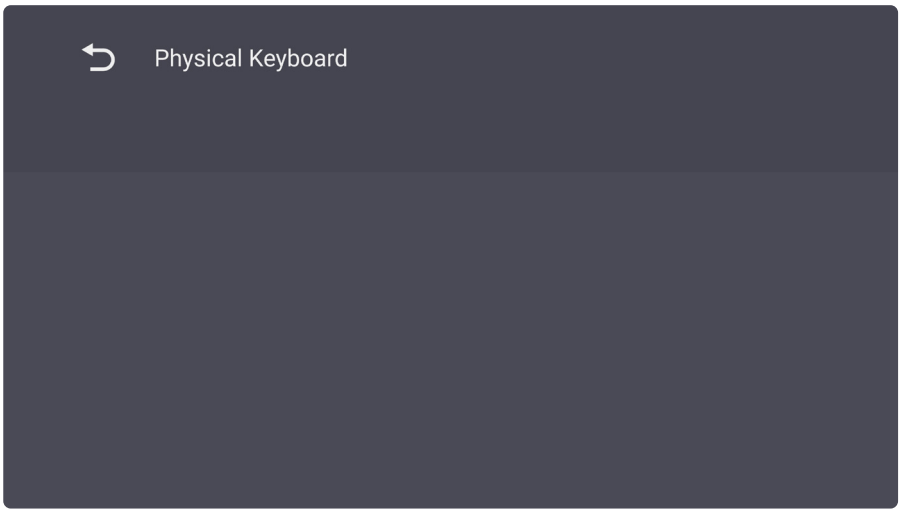
Sub-menu	Description
Dehumidification Settings	Set the dehumidification level or shut it down. 
Begin Dehumidification	Manually start the dehumidification process. 

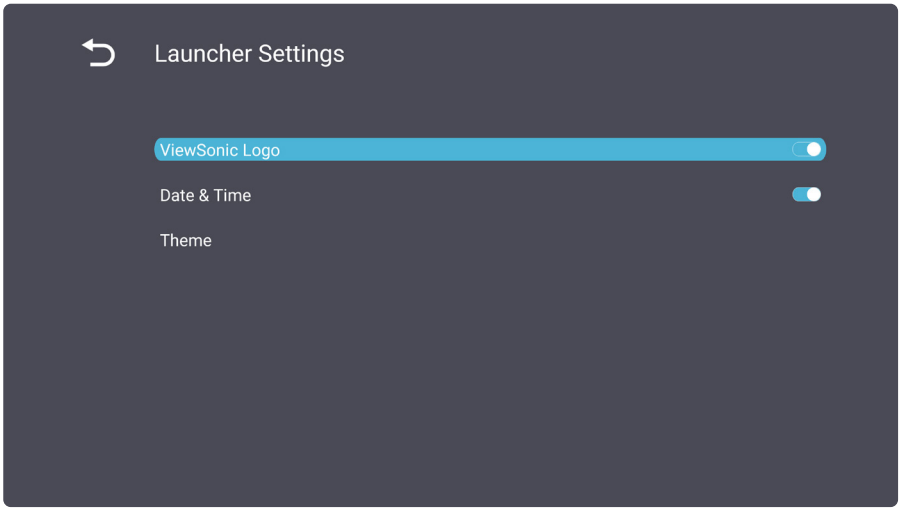
Device



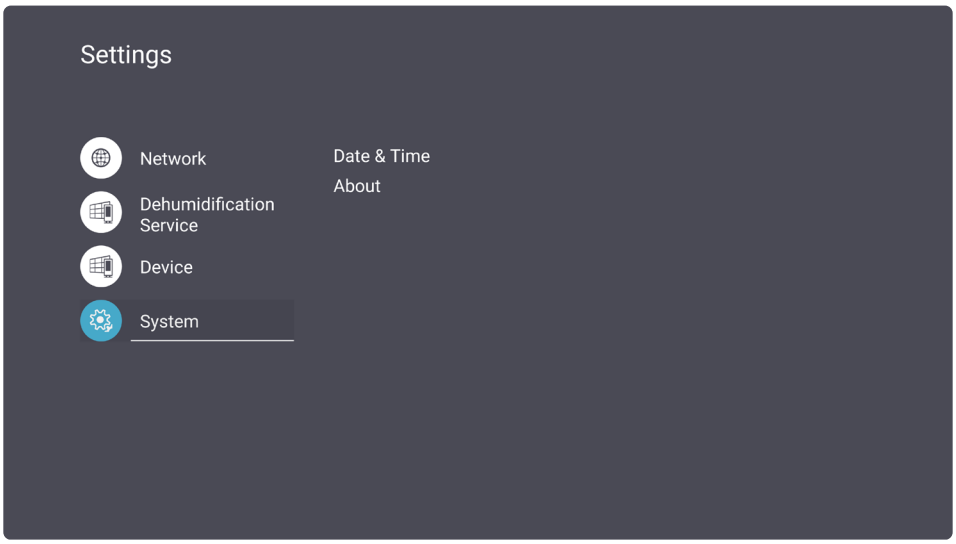
Sub-menu	Description
Signage Display	 General Settings Set the **Signage Display Name** and **Boot Logo**. Source Settings Set the application to open when the **Custom** input source is selected. Credential Settings View and clear credentials and install from storage. Security Review privacy and copyright protections, allow external USB storage and installing applications from unknown sources.

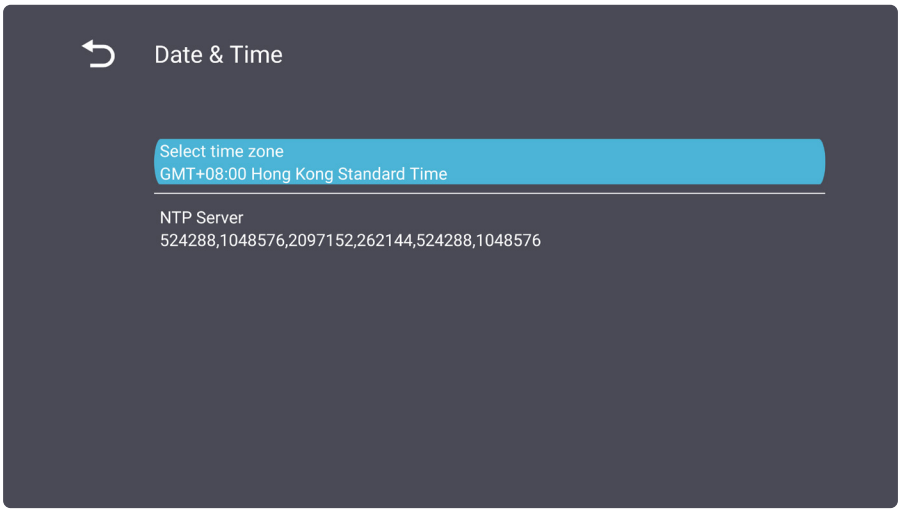
Sub-menu	Description
System Tools	 Clear Storage Clear storage space from both internal and external storage. Reset Reset the display to its default factory values. Import & Export Import or export the display's settings. Clone Copy media files from the display.
Display	 Font Size Set the font size for the display. Screensaver Enable or disable a screensaver.

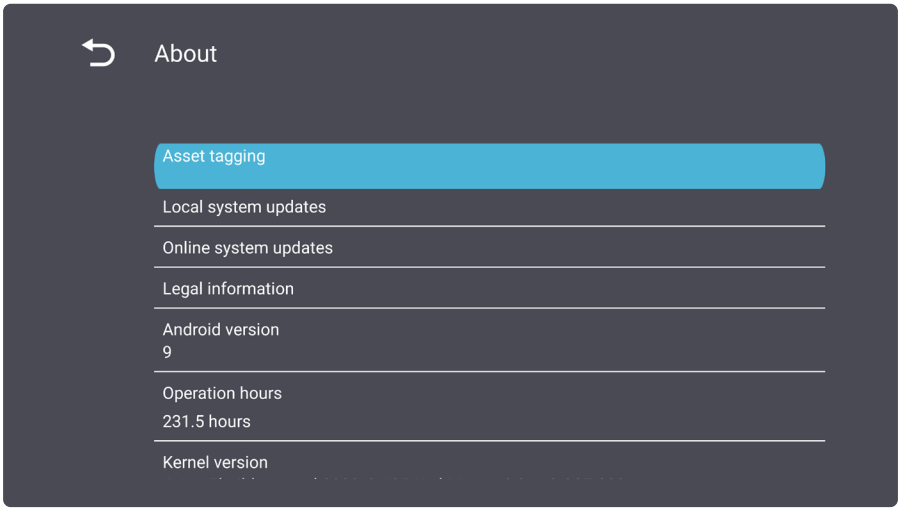
Sub-menu	Description
Apps	View information about the display's running, downloaded, or all applications. 
Physical Keyboard	View and select a keyboard input method. 

Sub-menu	Description
Launcher Settings	 ViewSonic Logo Display or hide the ViewSonic logo on the Home Screen. Date & Time Display or hide the Date & Time on the Home Screen. Theme Set the theme for the Home Screen.
Input Method	View and select an input method.

System



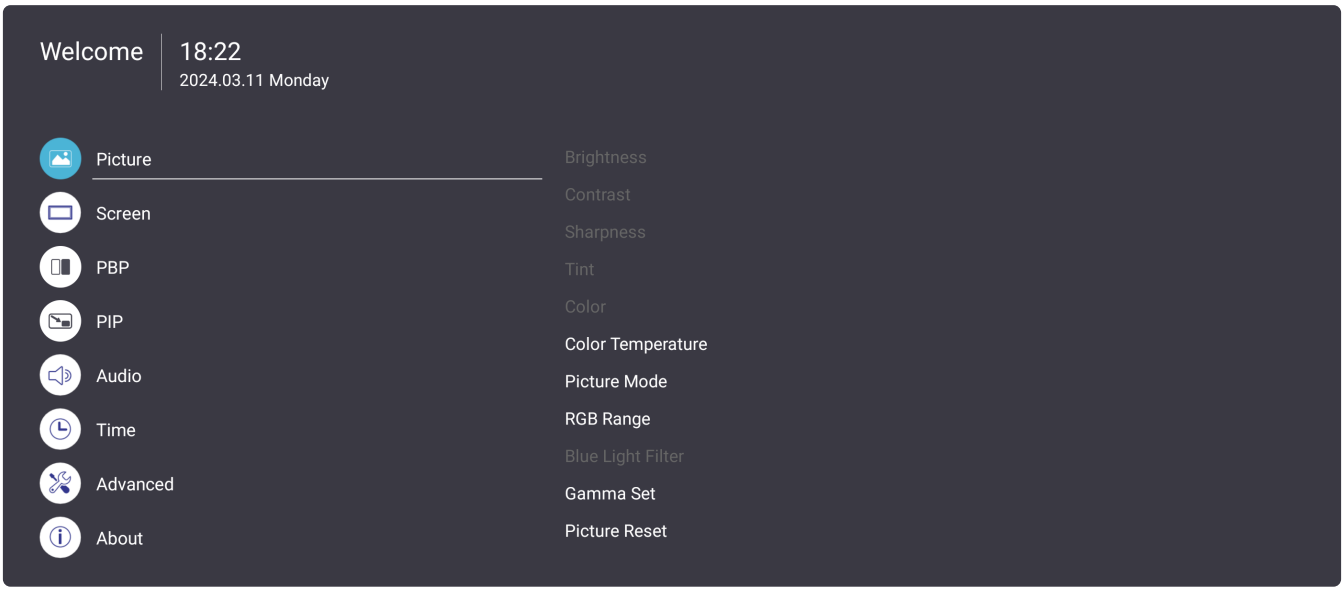
Sub-menu	Description
Date & Time	 Select Time Zone Set the display's time zone. NTP Server View NTP service information.

Sub-menu	Description
About Device	View information about the display and update the system locally or online. 

On-Screen Display (OSD) Menu

Use the On-Screen Display (OSD) Menu to adjust settings.

NOTE: The OSD Menu is only available when there is an active input source (e.g., HDMI).



To open and operate the OSD Menu:

1. Press the **MENU** (⚙) button on the remote control.
2. Press ▼/▲/◀/▶ on the remote control to select menu items or adjust values.
3. Press **OK** to confirm your selection.
4. Press the **RETURN** (⮌) button to go back to the previous menu level.
5. Press the **MENU** (⚙) button to exit the OSD Menu.

On-Screen Display (OSD) Menu Tree

Main Menu	Sub-menu	Menu Option
Picture	Brightness	(-/+, 0~100)
	Contrast	(-/+, 0~100)
	Sharpness	(-/+, 0~15)
	Tint	(-/+, 0~100)
	Color	(-/+, 0~100)
	Color Temperature	Warm
		Normal
		Cool
		User
	Picture Mode	Normal
		Dynamic
		Soft
		User
	RGB Range	Full Range
		Limited Range
		Auto
	Blue Light Filter	(-/+, 0~100)
	Gamma Set	Native
		2.2
		2.4
	Picture Reset	Cancel
		Reset
Screen	Zoom Mode	Full
		Real
		Dynamic
		21:9
	Screen Reset	Cancel
		Reset

Main Menu	Sub-menu	Menu Option	
PBP	PBP Mode	Full Screen	
		Dual Screen	
		Three-part Screen	
		Center Screen	
		Quad Screen	
	PBP Source		
	PBP Audio		
	PBP Reset		
PIP	PIP Mode	Top Left	
		Top Right	
		Bottom Left	
		Bottom Right	
	PicMain		
	PicSub		
	PIP Audio		
	PIP Reset		
Audio	Treble	(-/+, 0~24)	
	Bass	(-/+, 0~24)	
	Volume	(-/+, 0~100)	
	Maximum Volume	(-/+, 0~100)	
	Minimum Volume	(-/+, 0~99)	
	Mute	Off	
		On	
	Volume Control	Speaker	
		SPDIF	
		Headset	
	Audio Reset	Cancel	
		Reset	

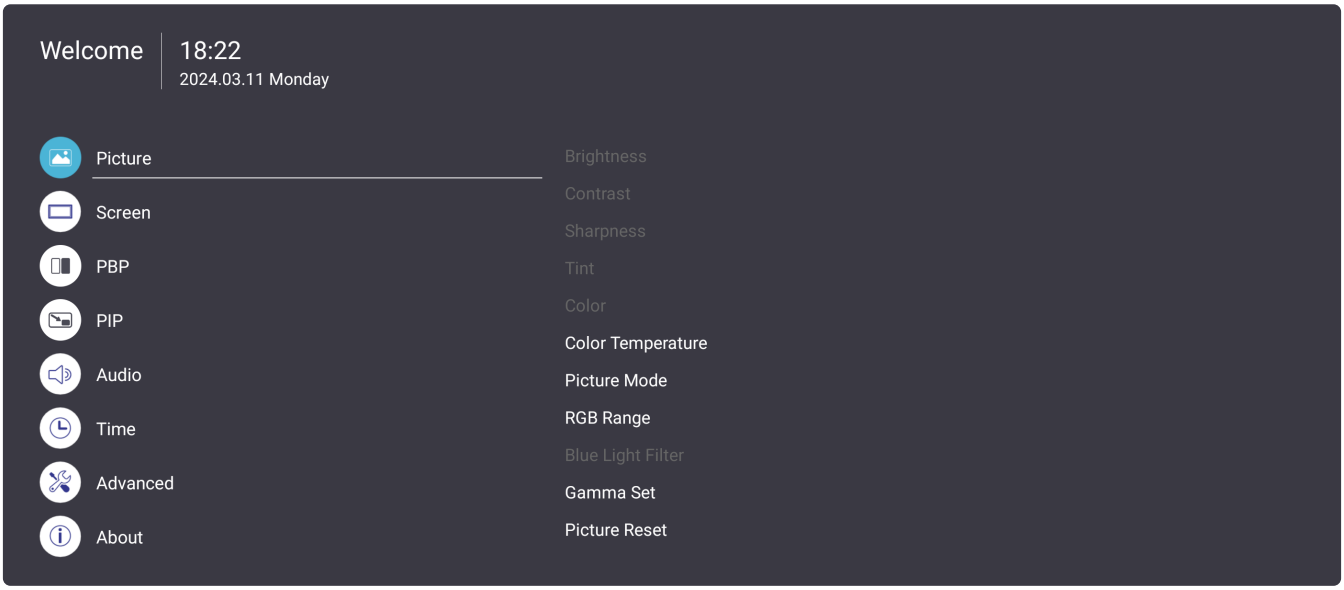
Main Menu	Sub-menu	Menu Option
Time	Off Time	Off
		(10 mins~240 mins)
	Date and Time	Use Network-Provided Time
		Set Date Format
		Choose Time Zone
		Use 24-hour Format
	Schedule	Schedule List
		Enable
		Start Time
		End Time
		Input
		Day of the Week
		Every Week
	Slideshow Interval	(1s/3s/5s/10s/15s/20s/25s/30s)
	OSD Turn Off	Off
		(5~120 seconds)
	Information OSD	Off
		(1~60 seconds)
	Time Reset	Cancel
		Reset

Main Menu	Sub-menu	Menu Option	
Advanced	Saving	Panel Saving	Off
			On
		Power Save	Sleep
			Hibernate
		Light Sensing	Off
			On
	Boot	Boot On Source	Last Source
			Input
		Boot On Logo	ViewSonic
			Blue
			Black
			Custom
	Signal	Auto Signal Detection	Off
			On
		No Signal Standby	(Off/0 min/5 min/15 min/30 min)
	Port	HDMI with One Wire	Off
			On
		HDMI Version	1.4
			2.0
			Auto
		USB Cloning	Import
			Export
		USB Auto Play	Off
			On

Main Menu	Sub-menu	Menu Option	
Advanced	Other	Switch On State	Power Off
			Last Status
			Forced On
		Language	English
			French
			Spanish
			German
			Russian
			Dutch
			Traditional Chinese
			Simplified Chinese
			Turkish
			Arabic
		Factory Reset	Cancel
			Reset
		Advanced Reset	Cancel
			Reset
About	Heat Status	xx° C / xx° F	
	Monitor Information	Model Name	
		Serial No.	
		Operation Hours	
		SW Version	

Menu Options

Picture



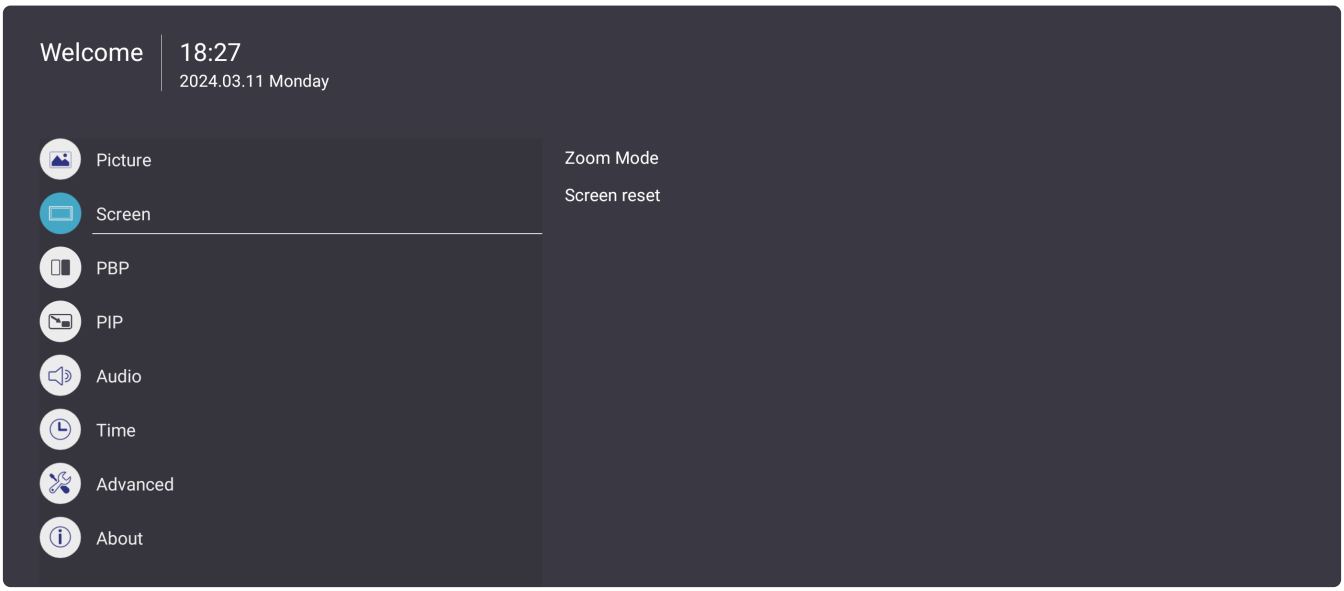
1. Press the **MENU** (⚙) button on the remote control to display the OSD Menu.
2. Then press **OK** or use ▼/▲/◀/▶ on the remote control to select the **Picture** menu.
3. Press ▼/▲ to select the menu option. Then press **OK** to display its sub-menu, or press ◀/▶ to adjust/select the setting.

NOTE: Some sub-menu options may have another sub-menu layer.

Sub-menu	Description
Brightness	Adjust the background black levels of the screen image.
Contrast	Adjust the degree of difference between the lightest and darkest parts of the picture and changes the amount of black and white in the image.
Sharpness	Adjust the on-screen image's clarity.
Tint	Adjust the color balance of the screen image. The higher the value, the more greenish the image becomes. The lower the value, the more reddish the image becomes.
Color	Adjust the amount of color in the on-screen image.
Color Temperature	Set how color appears on screen using the Kelvin scale.
Picture Mode	Select the mode that best fits the display's environment.
RGB Range	Select from Full Range (black and white levels are full [0~255]), Limited Range (Black and white levels are limited [16~235]), or Auto.
Blue Light Filter	Block high-energy blue light for a more comfortable viewing experience.

Sub-menu	Description
Gamma Set	Manually adjust the brightness level of the monitor’s grayscale levels.
Picture Reset	Reset the Picture settings to their default values.

Screen

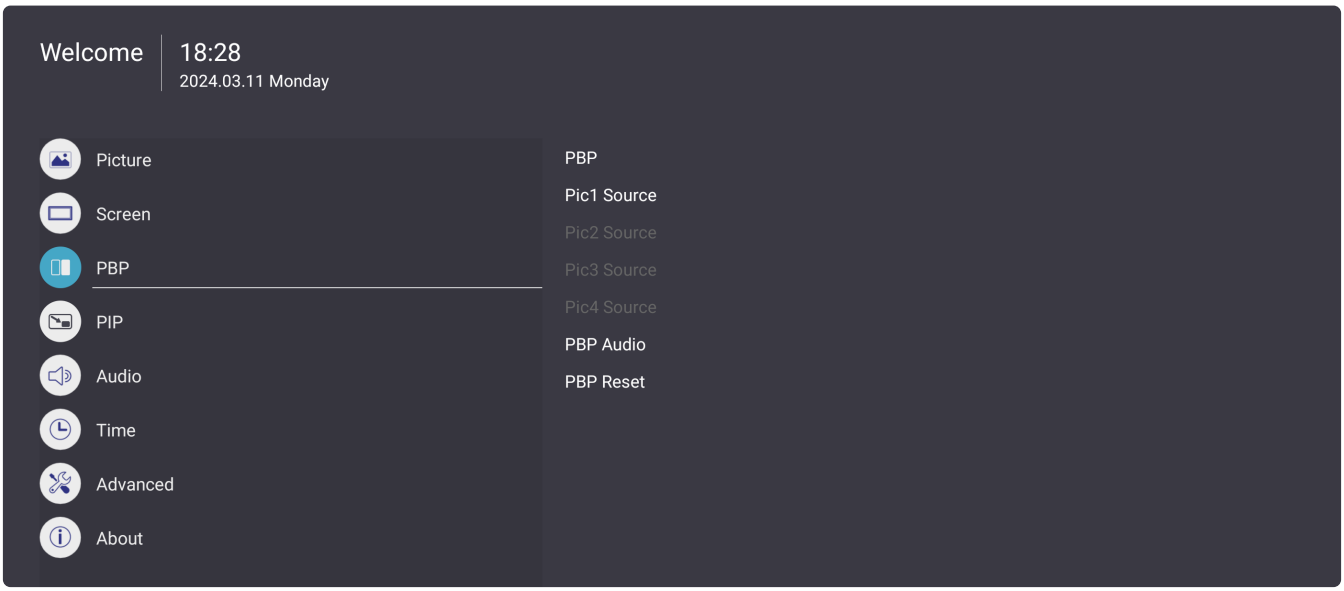


1. Press the **MENU** (⚙) button on the remote control to display the OSD Menu.
2. Then press **OK** or use ▼/▲/◀/▶ on the remote control to select the **Screen** menu.
3. Press ▼/▲ to select the menu option. Then press **OK** to display its sub-menu, or press ◀/▶ to adjust/select the setting.

NOTE: Some sub-menu options may have another sub-menu layer.

Sub-menu	Description
Zoom Mode	Set the on-screen image's width and height.
Screen Reset	Reset the Screen settings to their default values.

PBP (Picture-by-Picture)

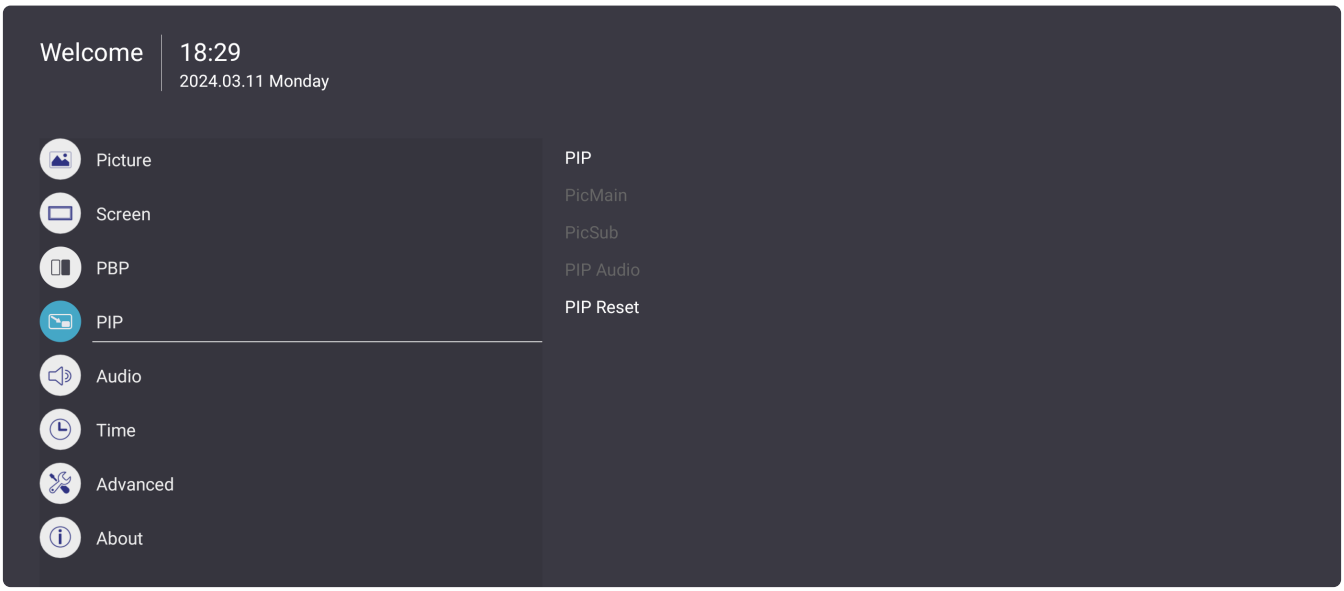


1. Press the **MENU** (⚙) button on the remote control to display the OSD Menu.
2. Then press **OK** or use ▼/▲/◀/▶ on the remote control to select the **PBP** menu.
3. Press ▼/▲ to select the menu option. Then press **OK** to display its sub-menu, or press ◀/▶ to adjust/select the setting.

NOTE: Some sub-menu options may have another sub-menu layer.

Sub-menu	Description
PBP Mode	Select the type of PBP screen: Full, Dual, Three-part, Center, or Quad.
PBP Source	Set the video source for the PBP.
PBP Audio	Set the audio source for the PBP.
PBP Reset	Reset the PBP settings to their default values.

PIP (Picture-in-Picture)

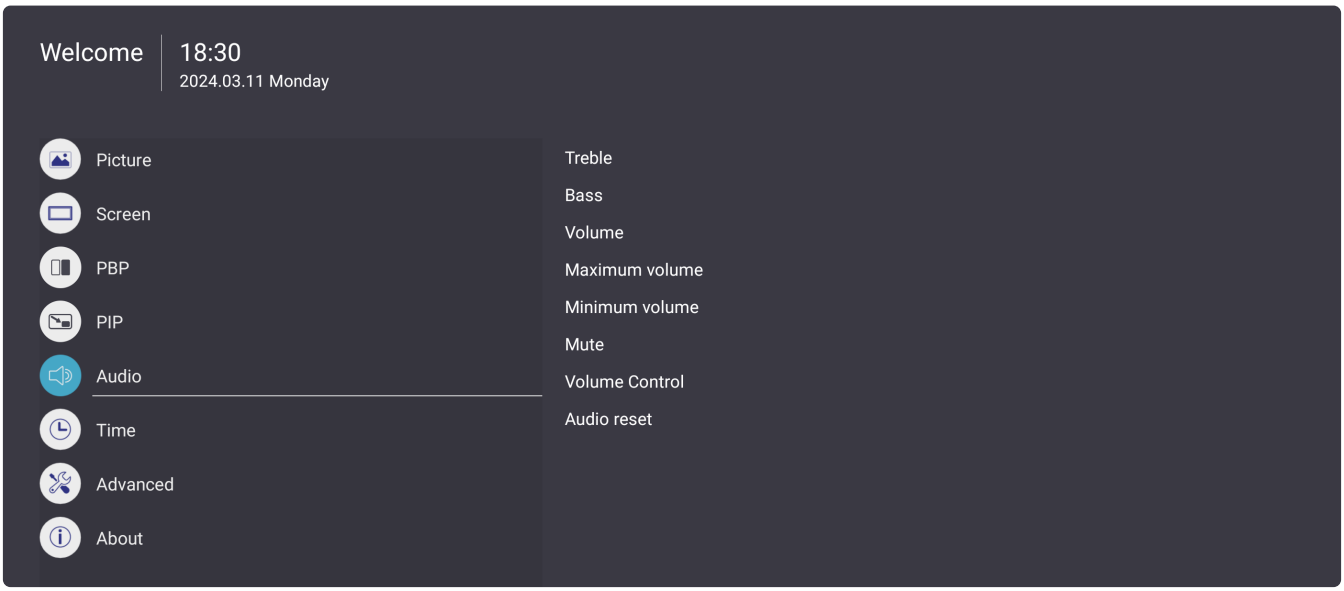


1. Press the **MENU** (⚙) button on the remote control to display the OSD Menu.
2. Then press **OK** or use ▼/▲/◀/▶ on the remote control to select the **PIP** menu.
3. Press ▼/▲ to select the menu option. Then press **OK** to display its sub-menu, or press ◀/▶ to adjust/select the setting.

NOTE: Some sub-menu options may have another sub-menu layer.

Sub-menu	Description
PIP Mode	Select the location of the PIP screen: Top Left, Top Right, Bottom Left, Bottom Right.
PicMain	Set the video input source of the main screen.
PicSub	Set the video input source of the sub-screen.
PIP Audio	Set the audio source for the PIP.
PIP Reset	Reset the PIP settings to their default values.

Audio

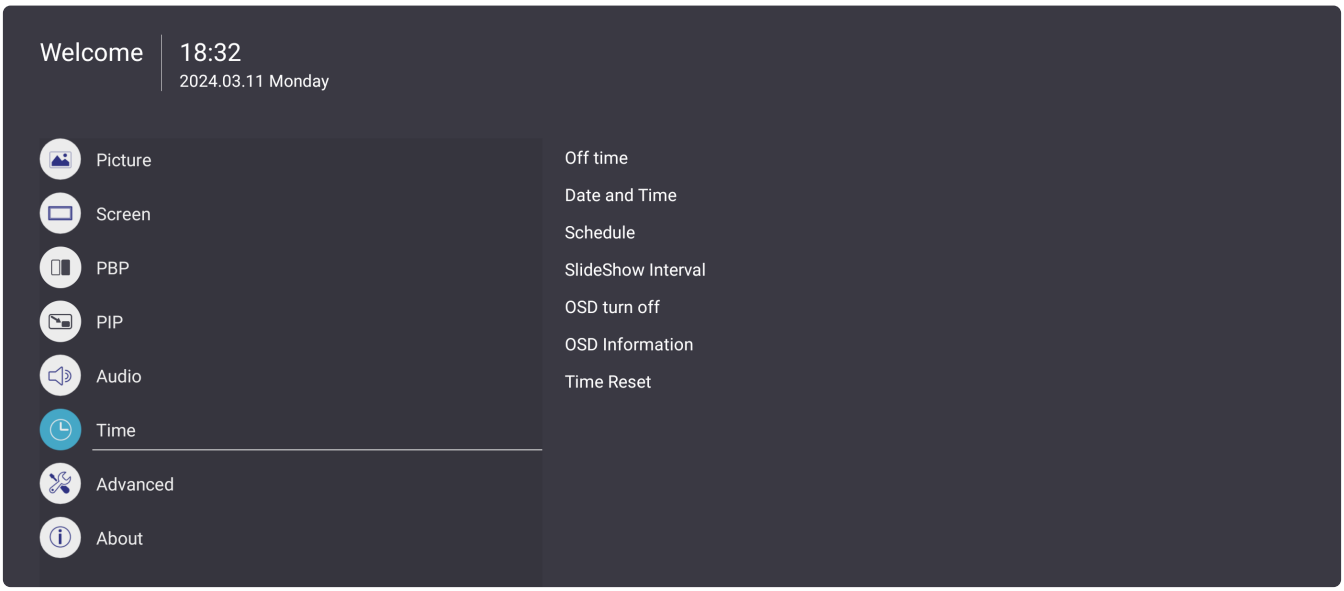


1. Press the **MENU** (⚙) button on the remote control to display the OSD Menu.
2. Then press **OK** or use ▼/▲/◀/▶ on the remote control to select the **Audio** menu.
3. Press ▼/▲ to select the menu option. Then press **OK** to display its sub-menu, or press ◀/▶ to adjust/select the setting.

NOTE: Some sub-menu options may have another sub-menu layer.

Sub-menu	Description
Treble	Adjust the display's treble level (higher-pitched sounds).
Bass	Adjust the display's bass level (lower-pitched sounds).
Volume	Adjust the display's sound level.
Maximum Volume	Set a maximum sound level.
Minimum Volume	Set a minimum sound level.
Mute	Turn off the display's sound.
Volume Control	Select the audio source: the display's Speaker, SPDIF port, or Audio Out port.
Audio Reset	Reset the Audio settings to their default values.

Time



1. Press the **MENU** (⚙) button on the remote control to display the OSD Menu.
2. Then press **OK** or use ▼/▲/◀/▶ on the remote control to select the **Time** menu.
3. Press ▼/▲ to select the menu option. Then press **OK** to display its sub-menu, or press ◀/▶ to adjust/select the setting.

NOTE: Some sub-menu options may have another sub-menu layer.

Sub-menu	Description
Off Time	Set a time for the display to turn off.
Date and Time	Set the date and time of the display.
Schedule	Set a schedule to turn the display on and off.
Slideshow Interval	Set the time interval to change between images for a photo slide show.
OSD Turn Off	Set the length of time the OSD Menu remains on screen.
OSD Information	Set the length of time the volume, brightness, and input source menu remain on screen.
Time Reset	Reset the Time settings to their default values.

Advanced



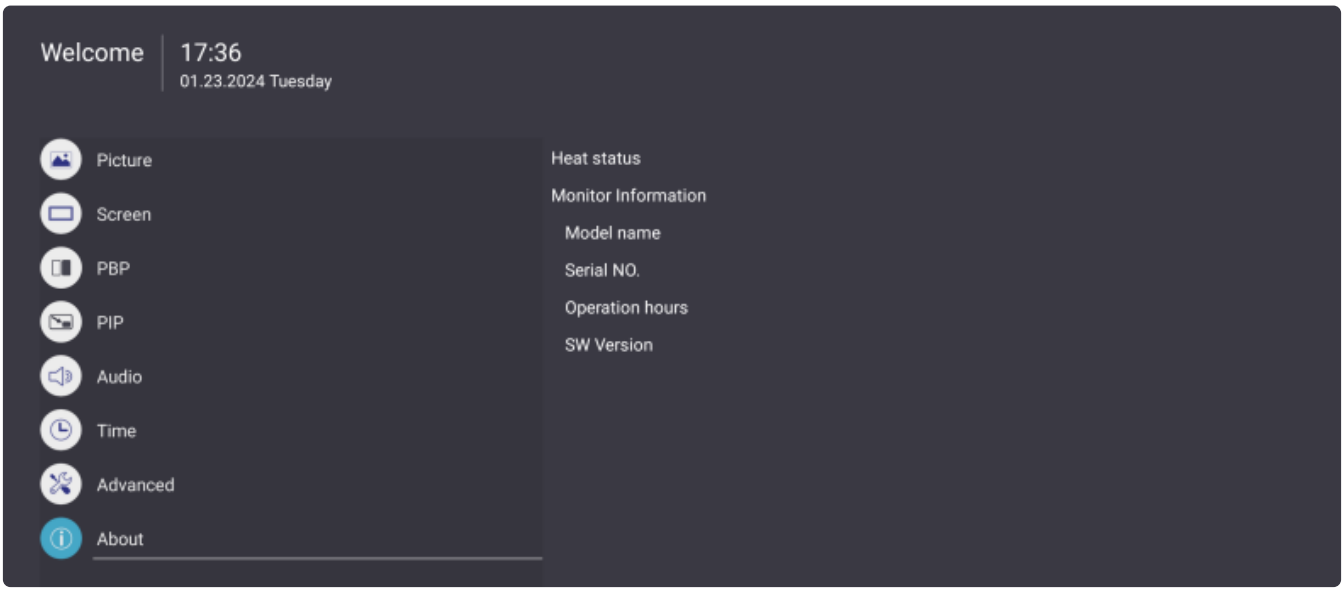
1. Press the **MENU** (⚙) button on the remote control to display the OSD Menu.
2. Then press **OK** or use ▼/▲/◀/▶ on the remote control to select the **Advanced** menu.
3. Press ▼/▲ to select the menu option. Then press **OK** to display its sub-menu, or press ◀/▶ to adjust/select the setting.

NOTE: Some sub-menu options may have another sub-menu layer.

Sub-menu	Description
Saving	Panel Saving Reduces the risk of image burn-in when enabled. Power Save Reduce power consumption.
Boot	Boot On Source Select the input source to enter automatically after the display is turned on. Boot On Logo Show or hide a logo when the display is turned on.

Sub-menu	Description
Signal	Auto Signal Detection Allow the display to detect and display available input sources automatically. No Signal Standby Set the time period for the display to enter standby mode when there is no input signal.
Port	HDMI with One Wire Enable or disable CEC (Consumer Electronics Control). CEC synchronizes power on/off operation via HDMI connection. That is, if a device that also supports CEC is connected to the HDMI input of the display, when the display's power is turned off, the power of the connected device will also be turned off automatically. When the power of the connected device is turned on, the display's power will be turned on automatically. USB Cloning Save the OSD Menu configuration to a USB storage device. HDMI Version Select the HDMI version. USB Auto Play If enabled, the display will copy media files from a connected external USB storage device to the display's internal storage then play the media files automatically. **NOTE:** If power is lost during the file transfer, please remove the files from the internal storage and try again.
Other	Switch On State Select the display status for the next time the power cord is connected to a power outlet: Power Off, the display will remain off, Last Status, the display will return to the previous power status, or Forced On, the display will turn on. Language Set the language for the OSD Menu. Factory Reset Reset all OSD Menu settings to their default values. Advanced Reset Reset the Advanced settings to their default values.

About



1. Press the **MENU** (⚙) button on the remote control to display the OSD Menu.
2. Then press **OK** or use ▼/▲/◀/▶ on the remote control to select the **About** menu.
3. Press ▼/▲ to select the menu option. Then press **OK** to display its sub-menu, or press ◀/▶ to adjust/select the setting.

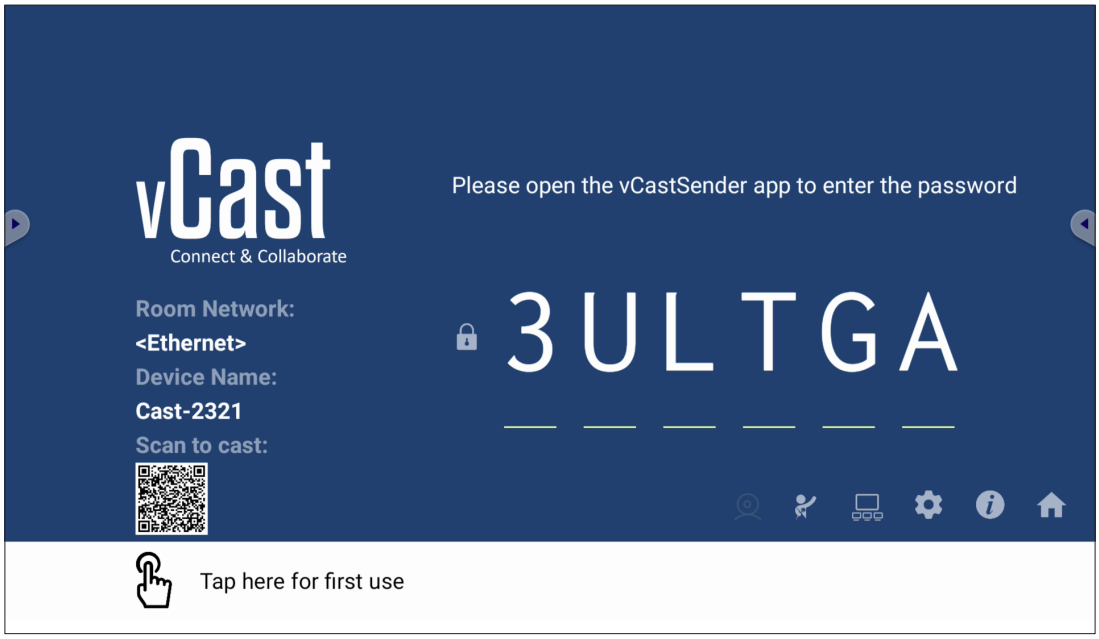
NOTE: Some sub-menu options may have another sub-menu layer.

Sub-menu	Description
Heat Status	View the maximum temperature of the display.
Monitor Information	View information about the display such as: Model Name, Serial Number, Operation Hours, and Software Version.

Pre-installed Applications

vCast

Working with ViewBoard® Cast software (vCast, vCast Pro, and vCastSender), the vCast application will allow the display to receive laptop screens (Windows/Mac/Chrome) and mobile (iOS/Android) users' screens, photos, videos, annotations, and camera(s) that are using the vCastSender application.

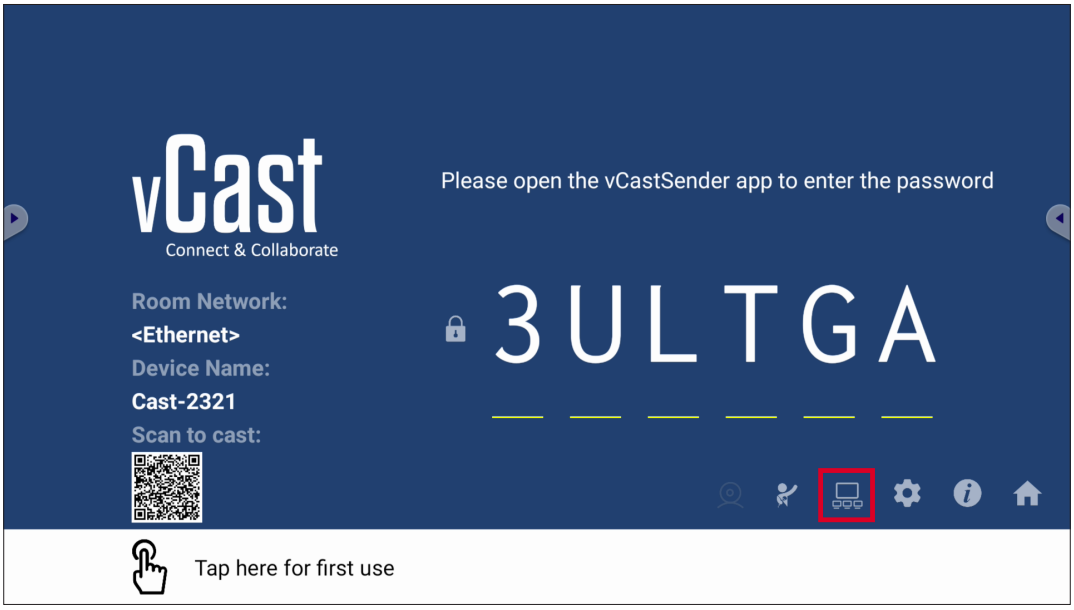


Network Information

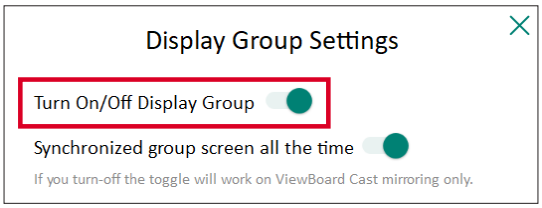
- ViewBoard® Cast software, laptops, and mobile devices can connect to both the same subnet and cross subnet by entering the on-screen PIN code.
- Connected devices will show up under **Device List** on the same subnet connection.
- If the device does not show up under **Device List**, users will need to key-in the on-screen PIN code.
- **Ports:**
  - » TCP 56789, 25123, 8121 & 8000 (Controlling message port & client device audio transfer)
  - » TCP 8600 (BYOM)
  - » TCP 53000 (Request share screen)
  - » TCP 52020 (Reverse control)
  - » TCP 52025 (Reverse control for ViewBoard Cast Button)
  - » TCP 52030 (Status sync)
  - » TCP 52040 (Moderator mode)
  - » UDP 48689, 25123 (Device searching and broadcast & client device audio transfer)
  - » UDP 5353 (Multicast search device protocol)
- **Port and DNS for Activation**:
  - » Port: 443
  - » DNS: https://vcastactivate.viewsonic.com
- **OTA Service**
  - » Server Port: TCP 443
  - » Server FQDN Name: https://vcastupdate.viewsonic.com

Display Group Settings

To adjust the Display Group Settings, select the Display Group icon ( ) located in the lower-right corner of the screen.

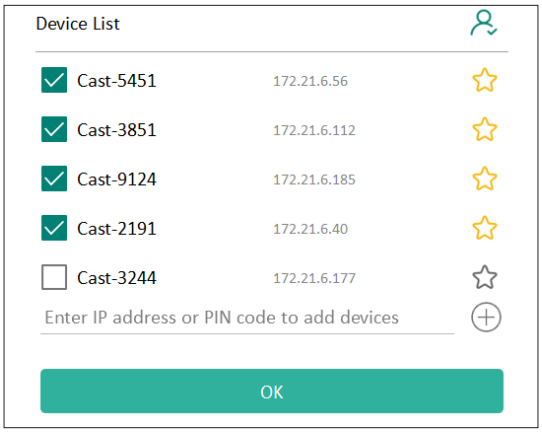


1. Toggle the "Turn On/Off Display Group" ON to enable the Display Group feature.



NOTE: Other preinstalled ViewBoard Cast devices in the same network will be listed.

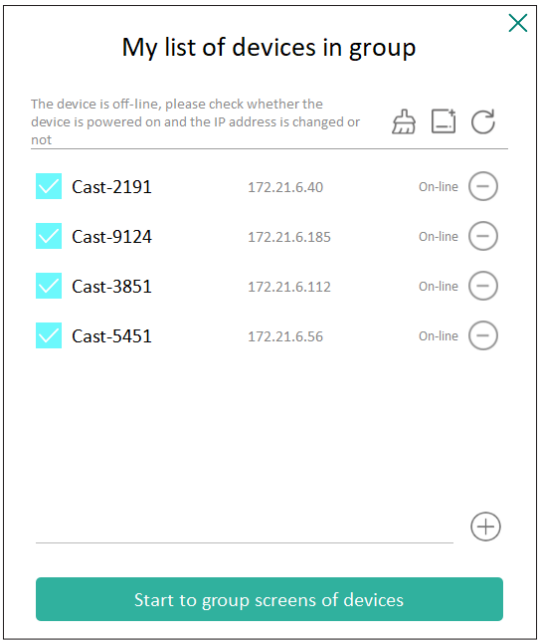
2. Select the devices you want to join the display group and select **OK** to save the settings.



NOTE:

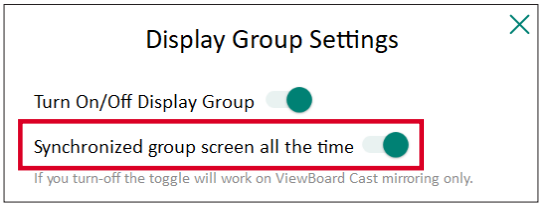
- If the devices you want to group are not listed, you can enter their respective IP address or connecting PIN code.
- The Display Group maximum device limit is six devices.

3. If you frequently connect to the same device, you can select the Star icon (☆) next to the device to add it to your frequently connected devices list, “My List of Devices in Group”, for easier Display Group setup and management.



Synchronized Group Screen All the Time

When the “Synchronized group screen all the time” function is toggled ON, it will display a synchronized group screen continuously. If it is toggled OFF, it will work on vCast mirroring only.



NOTE: Select the devices to group first, then toggle the “Synchronized group screen all the time” function ON to avoid interruption.

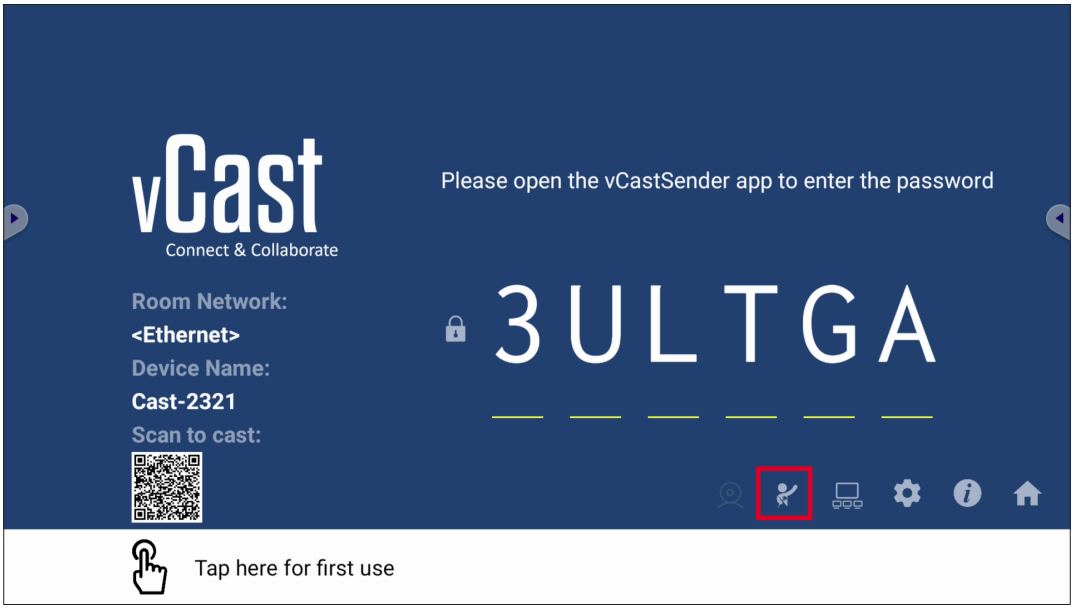
Share a Screen to the Display Group (One to Many Casting)

After confirming the above settings, you can share your screen to the main display, then the grouped client devices will be synced up to your screen.

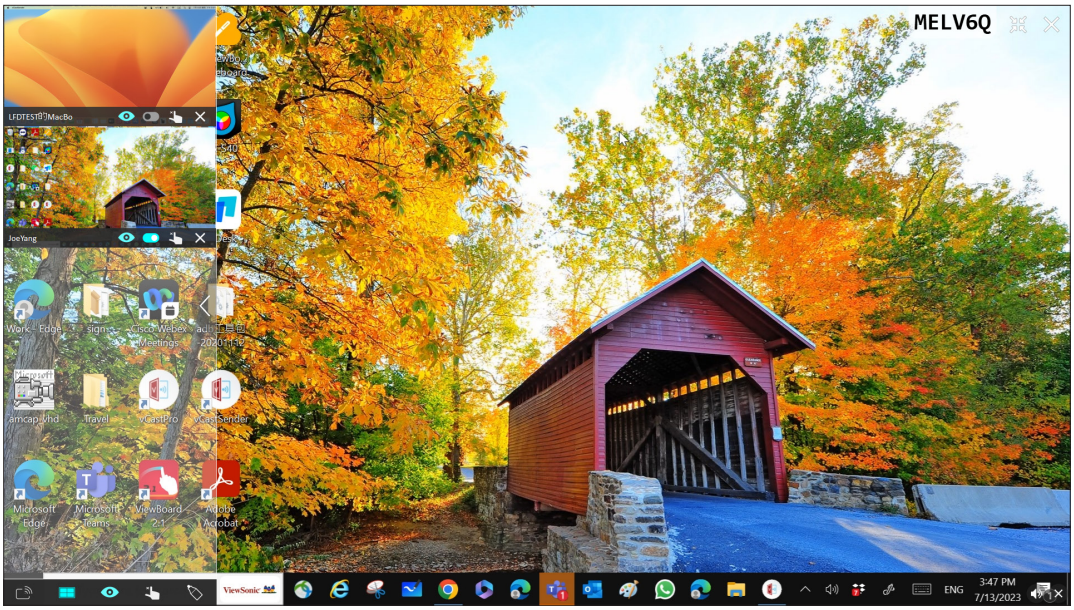


Moderator Mode

Moderator Mode allows the moderator to take control of the devices connected to the display. To enter Moderator Mode, select the Moderator Mode icon ( ) located in the lower-right corner of the screen.

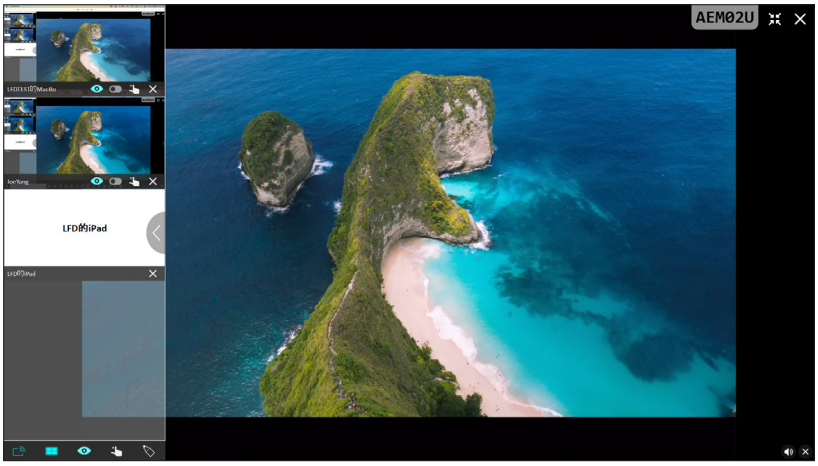


When enabled, the moderator can view a list of all connected screens in the left floating window and can preview each participant's screen and then select any of participant's screen and cast to the display's main screen for presentation. The moderator can also control each participant's screen, annotate on the display, and remove unwanted participants by selecting the close icon (X).



Broadcast

When enabled, the display's screen will be broadcasted to all of the participant's connected screens simultaneously. The participants can only view the presentation contents until the moderator disables the Broadcast function.



Multiple Screen Sharing

By default, vCast is set to allow multiple screen sharing, but can also be set to single screen sharing. To do this, the moderator can select the Multiple Screen Sharing icon to switch to single screen sharing.

Preview Screen

By default, vCast is set to let the moderator preview the participant's screen contents prior to sharing to the display. Selecting the Preview Screen icon, the Moderator can switch to see the participant's name only.

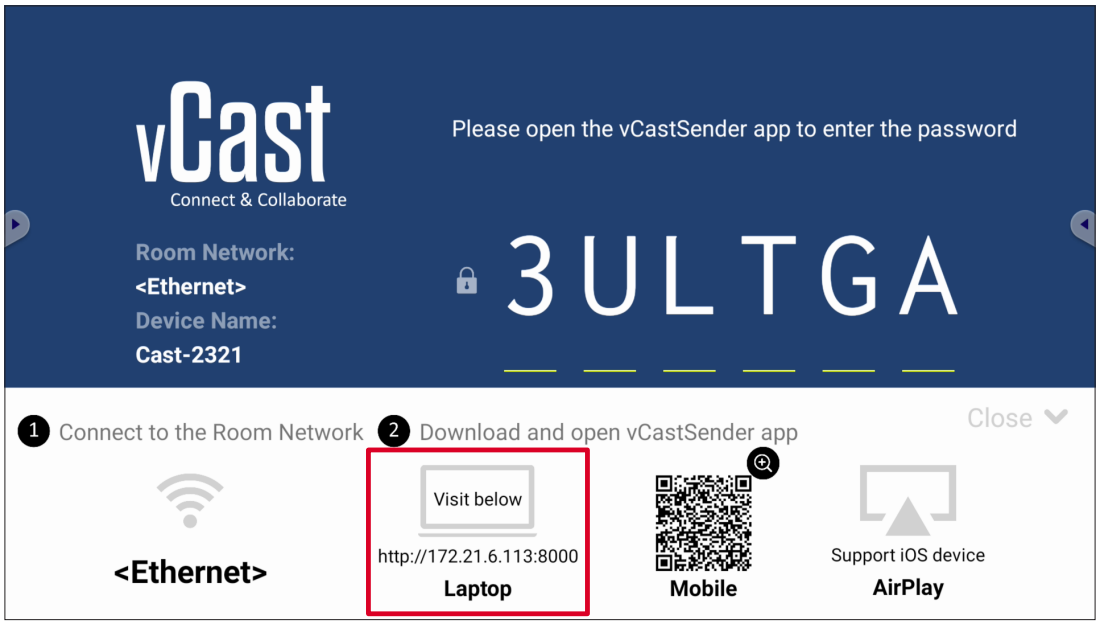
Touch

By default, participants can use touch for collaboration after connecting. The moderator can enable/disable the touch function of a participant by selecting the Touch icon in their window.

NOTE:

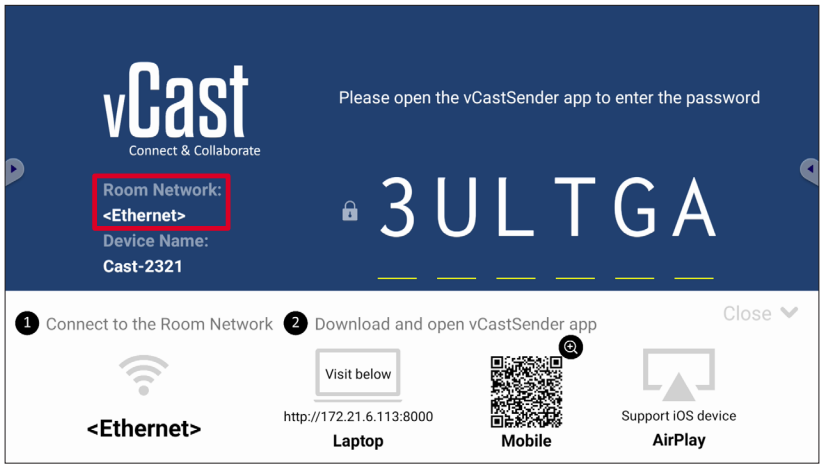
- Moderator Mode is supported on all vCastSender and AirPlay devices, but mobile devices are limited to a "preview" function. Additionally, mobile Android devices cannot cast sound out.
- When you cast your Windows/Mac/Chrome screen to the display, the selected full screen unit will not be broadcasted back to your device to avoid repetitive screen casting.
- The active presenter can touch each of the participant's screens to remotely control casting devices.
- The number of multi-screen presenters on-screen depends on your Windows CPU processor performance and router specifications.

Casting from Windows, MacBook, and Chrome Devices



1. Ensure the client device (e.g., laptop) is connected to the same network as the display.

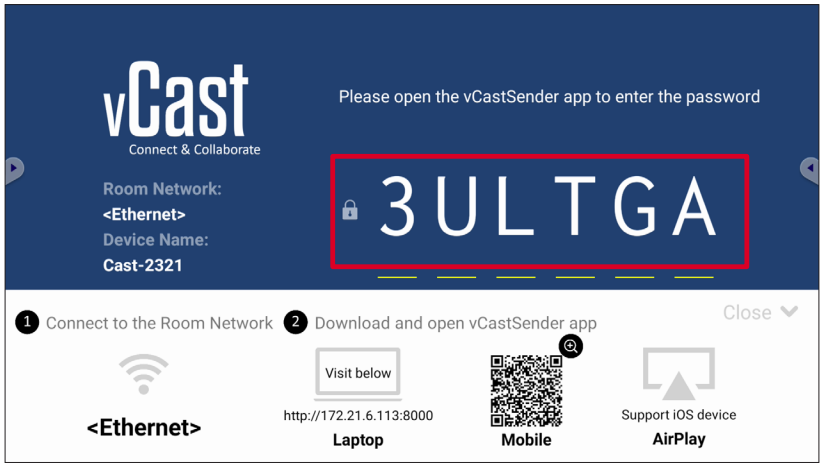
   NOTE: The network name can be found under **Room Network**.



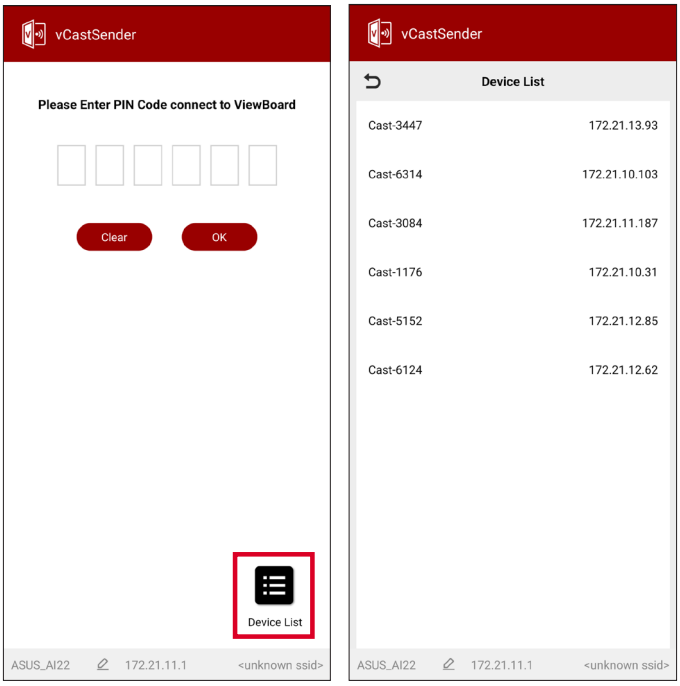
2. On the client device, visit the address that is shown on the display to download and install the vCastSender application.
3. After installing, launch the vCastSender application.

4. To connect to the display, input the PIN code and click OK.

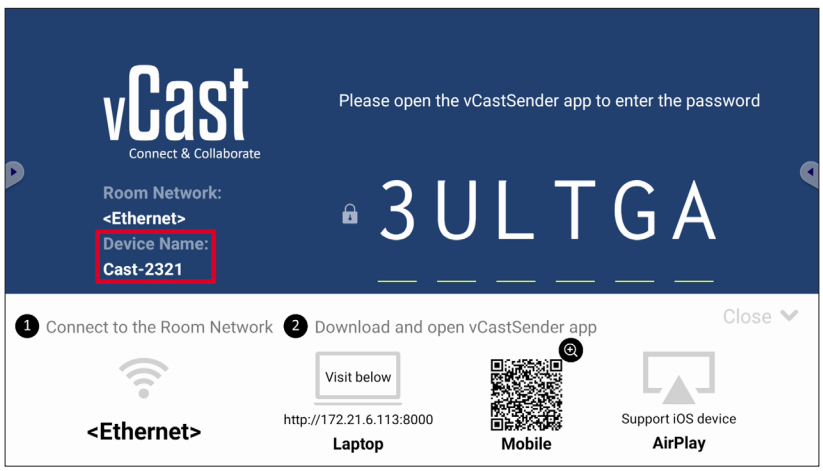
NOTE: The **PIN code** can be found as highlighted below:



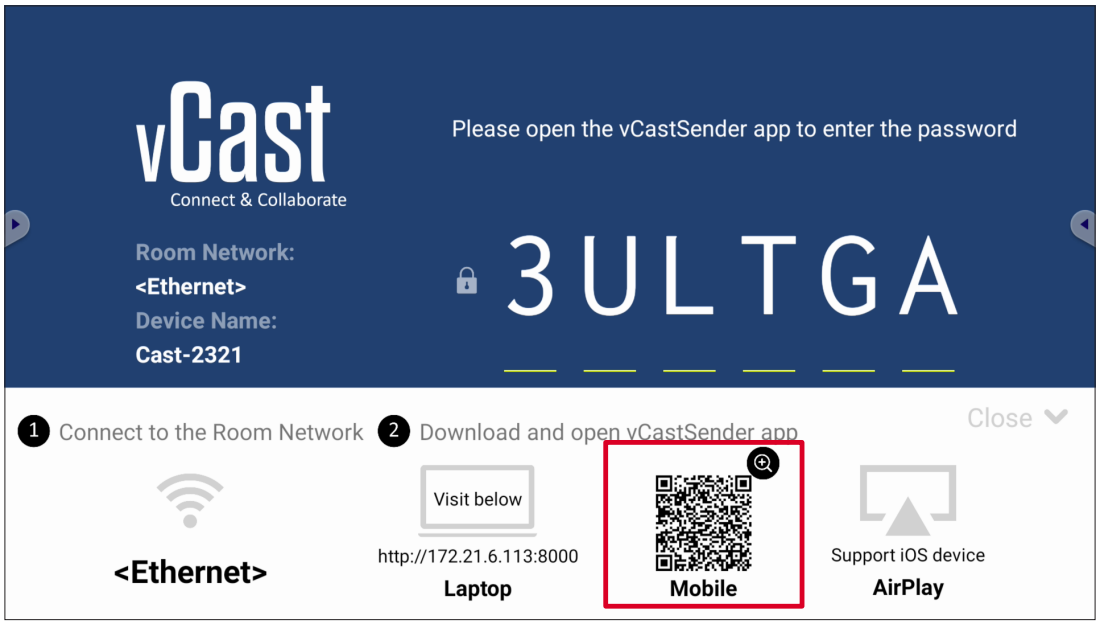
5. Additionally, you can connect to the display by clicking **Device List** then the **Device Name** listed.



NOTE: The **Device Name** can be found as highlighted below:

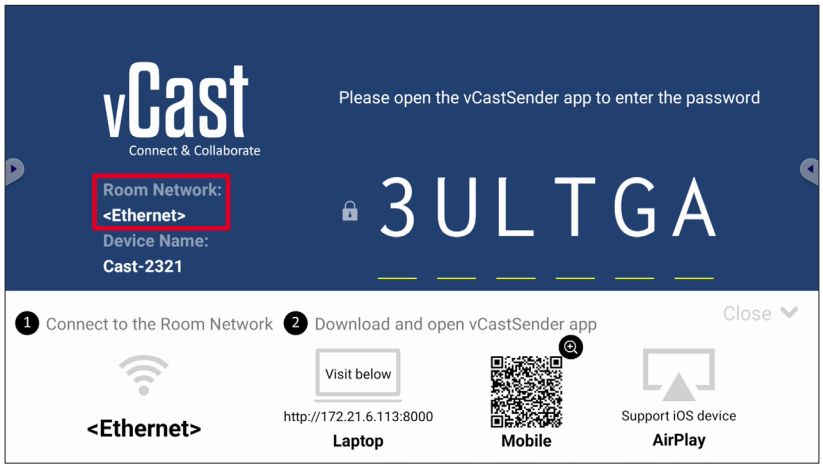


Casting from Android Devices



1. Ensure the client device (e.g., Android phone or tablet) is connected to the same network as the display.

   NOTE: The network name can be found under **Room Network**.



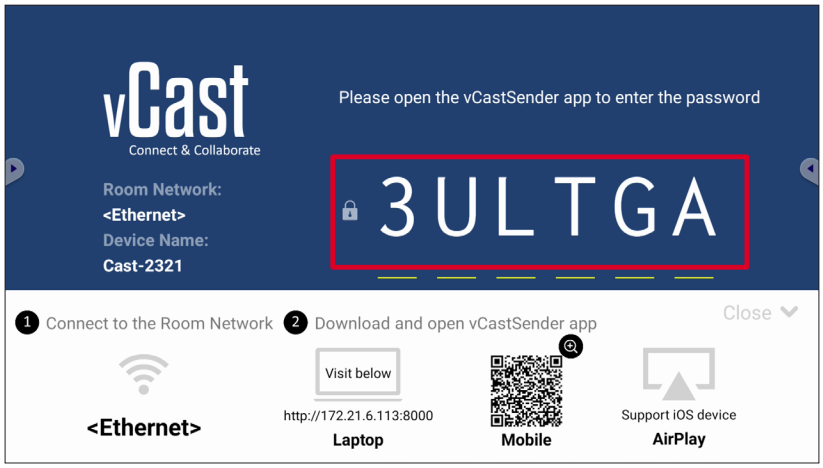
2. On the Android client device, scan the QR code shown on the display to directly download the vCastSender application, or download the application from the Google Play Store.



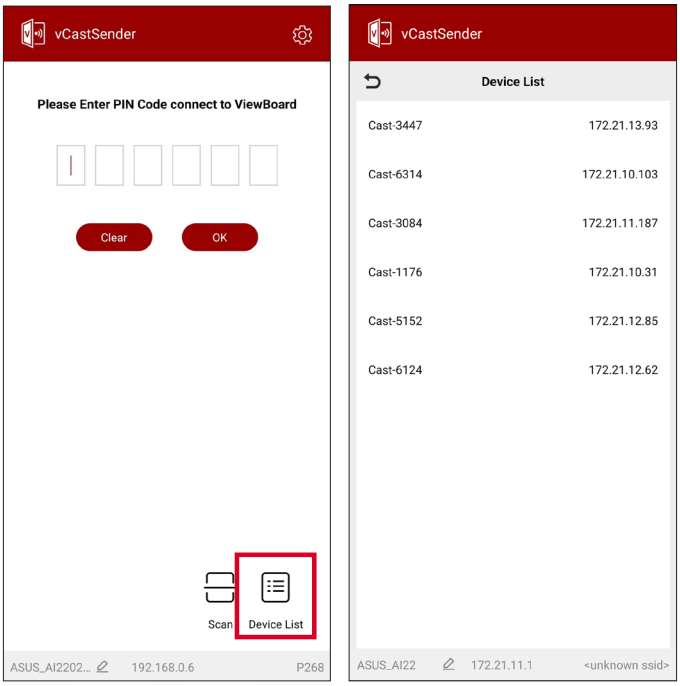
3. After installing, launch the vCastSender application.

4. To connect to the display, input the PIN code and select **OK**.

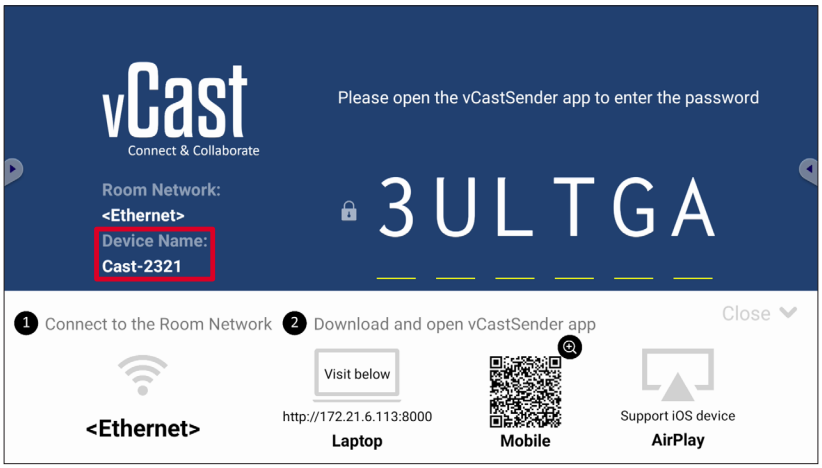
NOTE: The **PIN code** can be found as highlighted below:



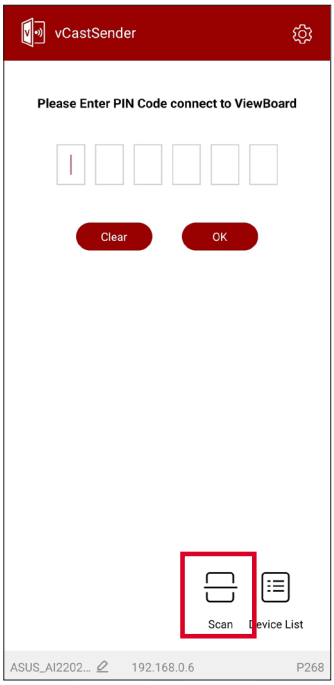
5. You can also connect to the display by selecting **Device List** then the **Device Name** listed.

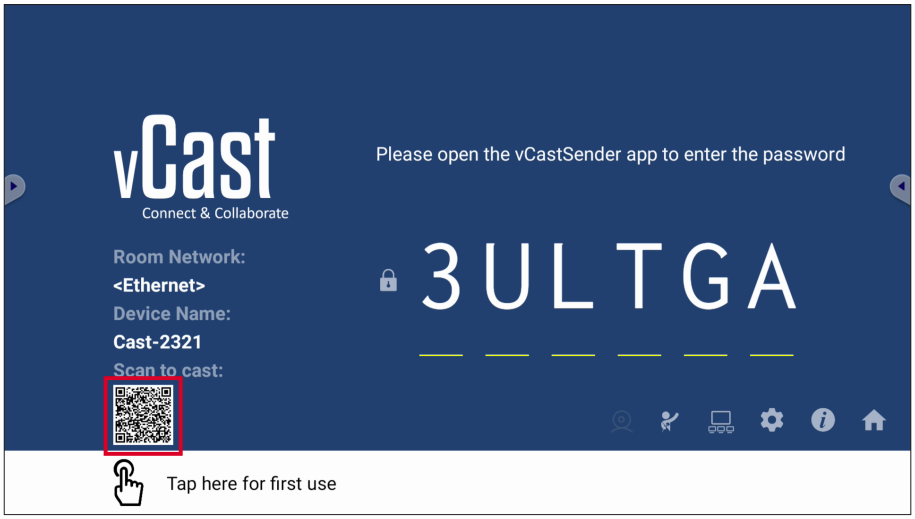


NOTE: The **Device Name** can be found as highlighted below:



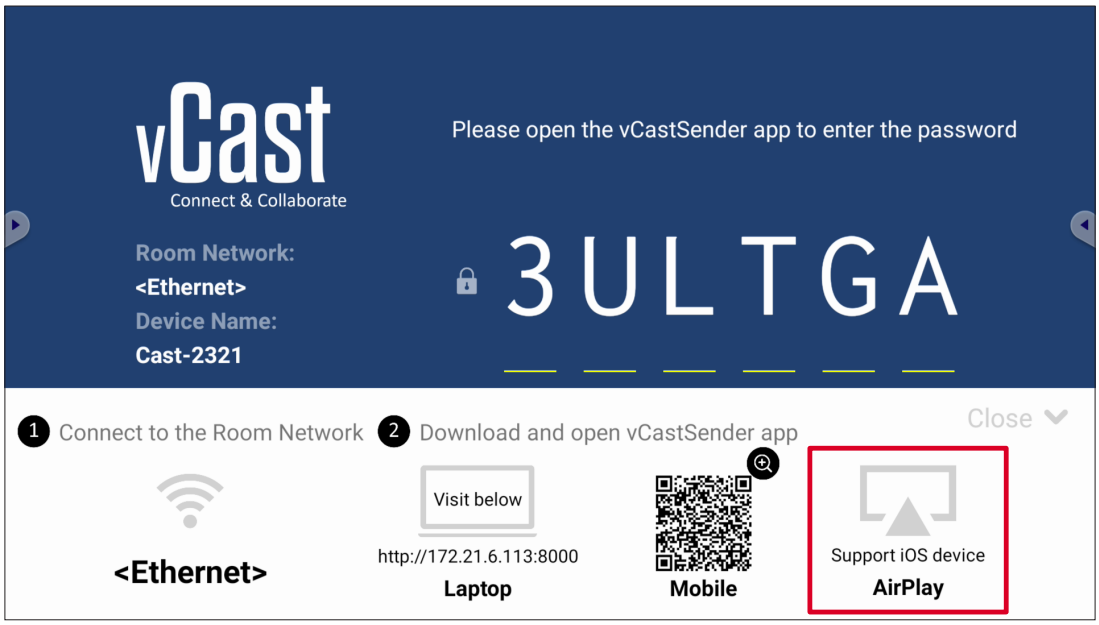
6. Additionally, you can connect to the display by selecting **Scan** then placing the on-screen QR code into the box to automatically connect.





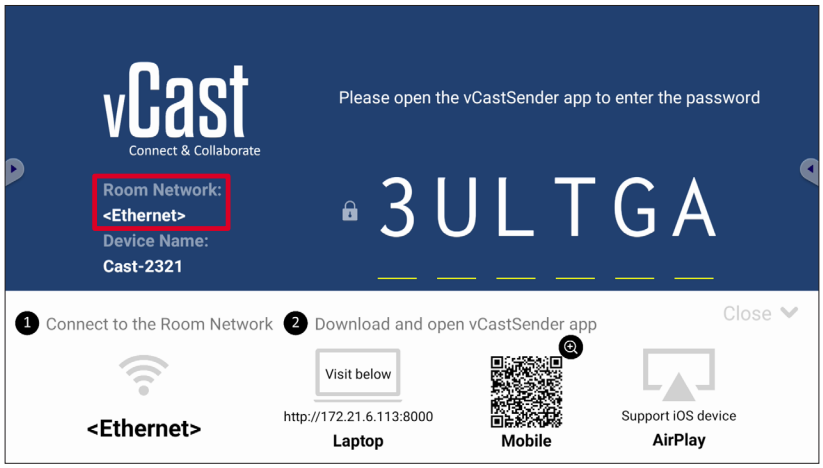
Casting from Apple iOS Devices

Apple AirPlay® is compatible with vCast for screen mirroring and content streaming under the same subnet environment only. An “AirPlay Password” will be generated on-screen for connection when using AirPlay to cast to the display.



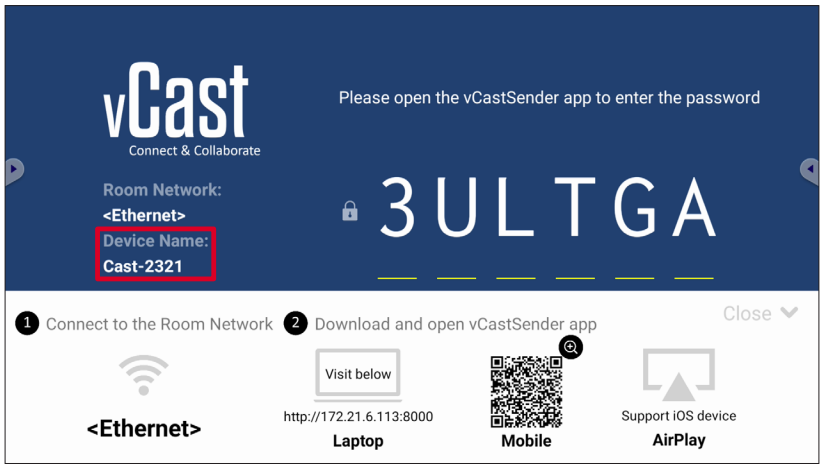
1. Ensure the client device (e.g., iPhone or iPad) is connected to the same network as the display.

   NOTE: The network name can be found under **Room Network**.



2. On the iOS client device, directly open AirPlay and select the **Device Name** of the display to connect.

NOTE: The **Device Name** can be found as highlighted below:

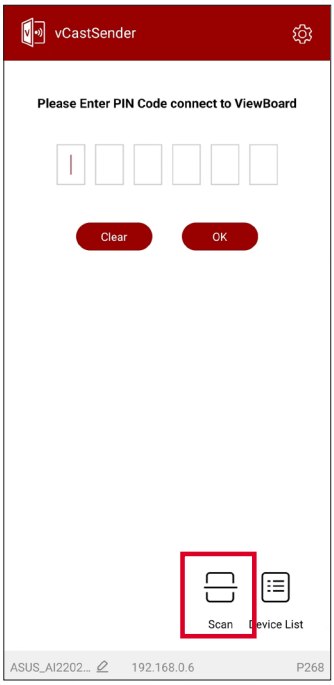


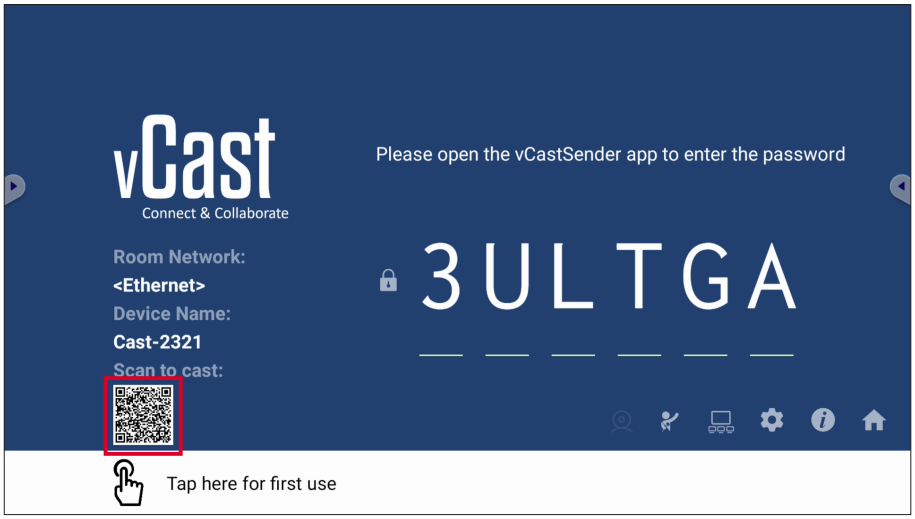
3. Input the generated on-screen **AirPlay Password** on the client device to connect.



NOTE: In a cross subnet environment, please download and connect with the vCastSender iOS application from the Apple App Store.

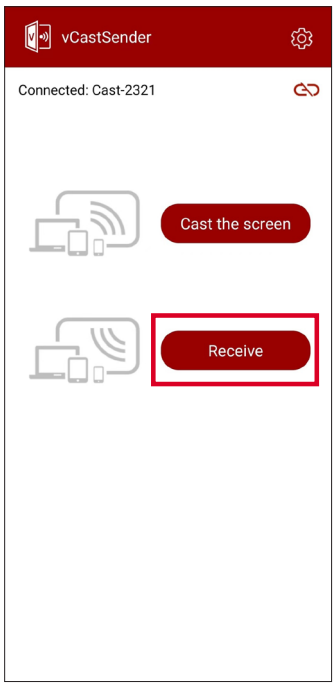
4. You can also connect to the display by selecting **Scan** then placing the on-screen QR code into the box to automatically connect.

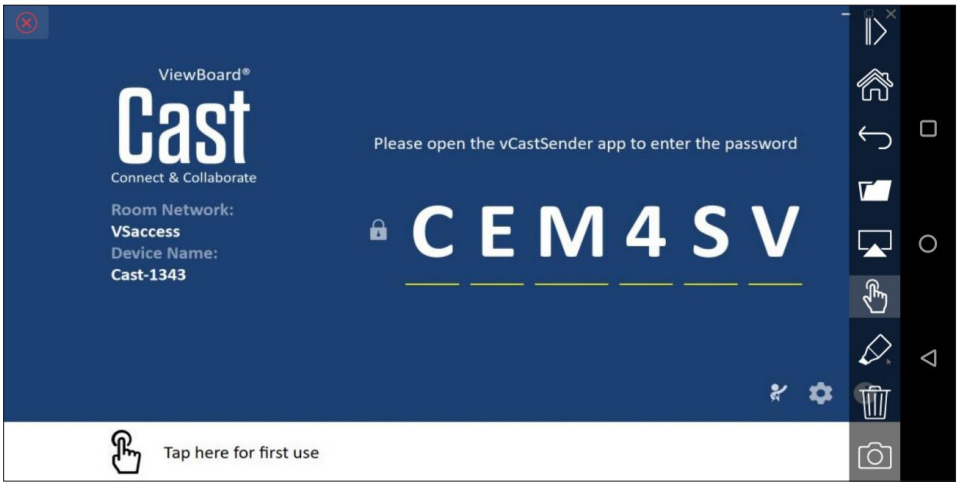




Connecting to a ViewBoard from a Mobile Device

Once connected, select **Receive**. The display's screen will appear on the mobile device with an on-screen toolbar. Users can interact with the display with annotations, file sharing, etc.



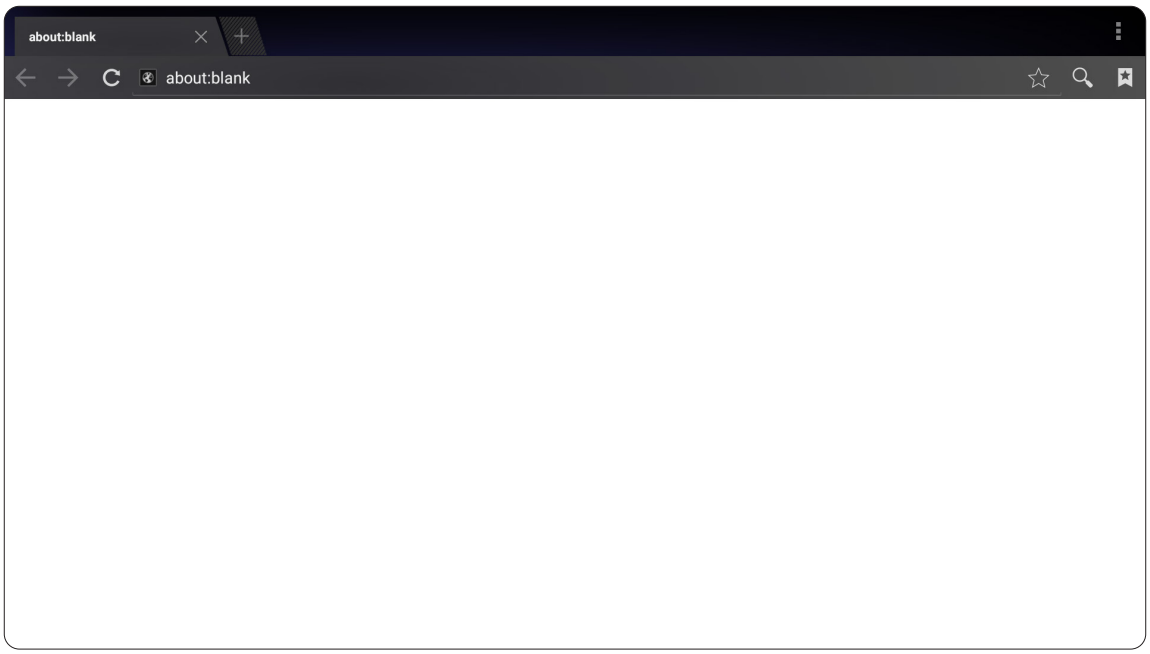


Item		Description
	Toggle	Hide or display the toolbar.
	Home	Return to the Home interface.
	Return	Return to the previous operation.
	Folder	View or open the mobile device's files.
	Share	Cast the mobile device's screen to the connected display.
	Touch	Remotely control the connected display.
	Annotate	Make annotations, and adjust the pen color.
	Clear	Clear everything on screen.
	Camera	Send camera images to the connected display.

Other Default Applications

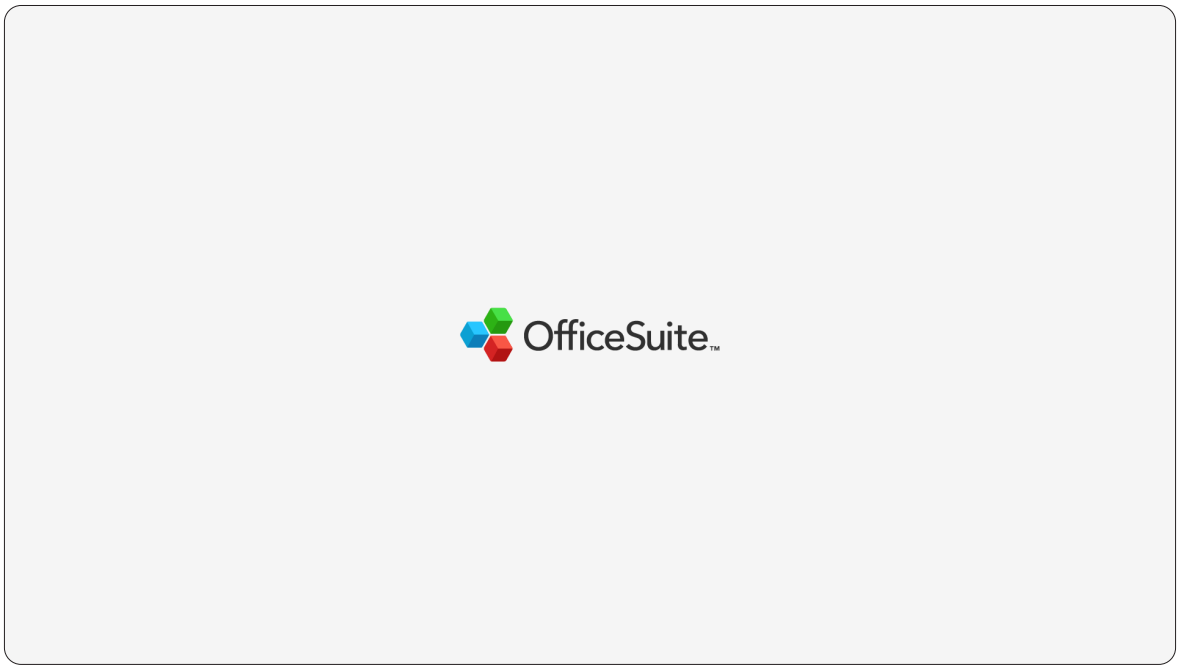
Browser

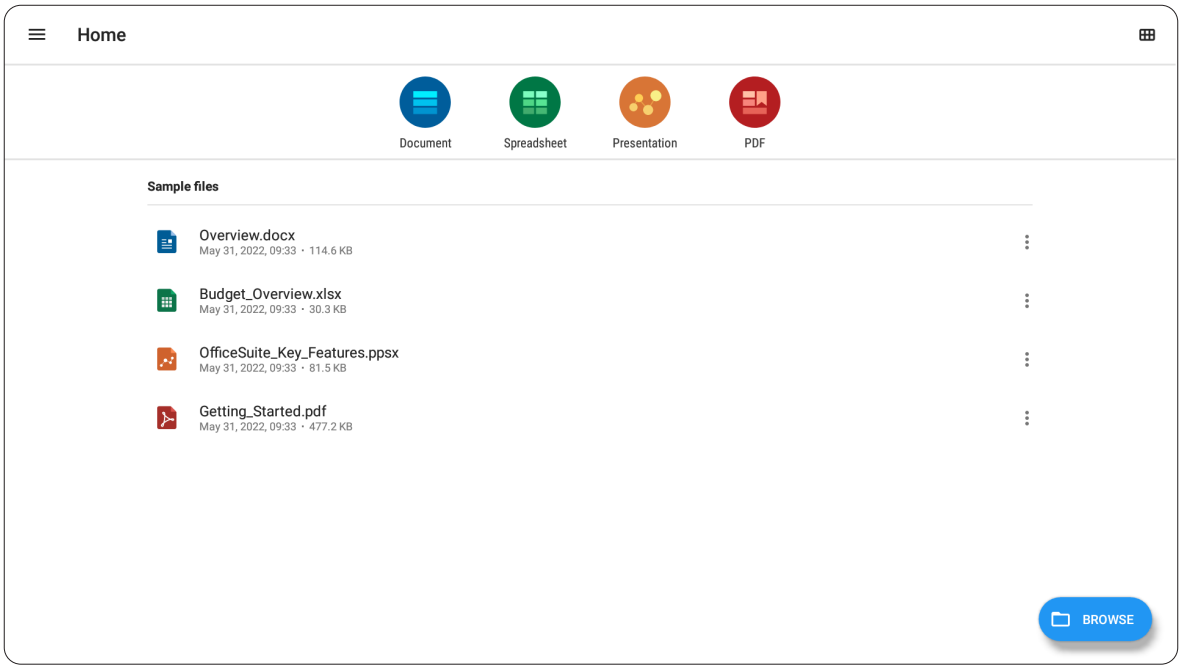
Web browser for surfing the Internet.



OfficeSuite

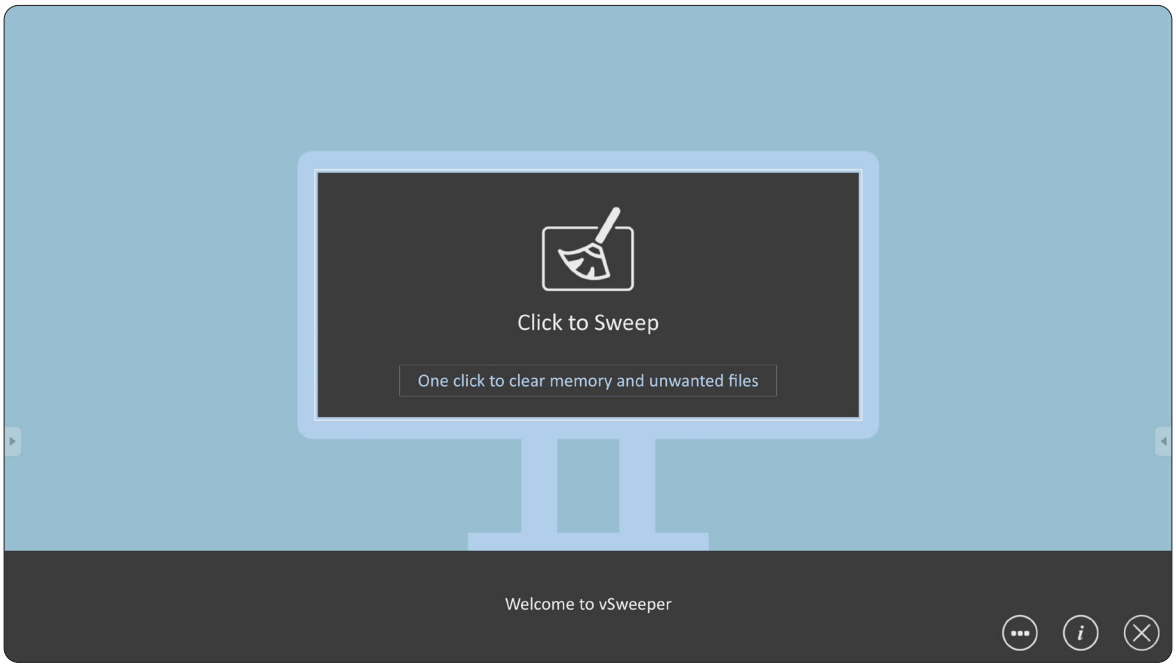
Create, edit, and view documents, spreadsheets, presentations, and PDFs.





vSweeper

Remove unnecessary data and unwanted files.



Advanced Settings can also be customized to the user's needs.



Appendix

Specifications

Item	Category	Specifications
Model		LDM136-151
LED Screen	Type	Direct View LED Display
	Size	136”
	Active Size (H x V)	3,000 mm x 1,687.5 mm
		118.11” x 66.44”
	Pitch Size	1.56 mm
	Resolution	FHD, 1920 x 1080
	Refresh Frequency	3840 Hz
	Contrast Ratio	6500:1 (Typical)
	Brightness	100-600 cd/m2 (100 levels of adjustment)
	LED Lifespan	100,000 hours
Input Signal		4 x HDMI (v. 2.0; HDCP 2.2)
		1 x USB Type A (2.0)
		1 x USB Type A (3.0)
		1 x LAN (RJ45)
		1 x IR in
		1 x USB Type C (data only)
		1 x RS-232 (for control)
		1 x RJ45 (for LAN control)
		1 x Wi-Fi Input (2.4 G/5 G Hz)
Output Signal		1 x HDMI Out
		2 x Audio Out (1 x 3.5 mm internal; 1 x 3.5 mm external)
		1 x USB Type A (Shared) [5V/2A]
Speaker Output		2 x 30W
RS-232		RS-232 Serial Control
Power	Voltage	100-120V/30A ~ 50/60Hz 220-240V/15A ~ 50Hz (will vary by country)
Operating Conditions	Altitude	≤ 5,000 m
		≤ 16,404 ft
	Relative Humidity	10%~80% non-condensing
	Temperature	0° C to 40° C
		32° F to 104° F

Item	Category	Specifications
Storage Conditions	Altitude	≤ 5,000 m
		≤ 16,404 ft
	Relative Humidity	10%~85% non-condensing
	Temperature	-10° C to 60° C
		14° F to 140° F
Physical Dimensions (W x H x D)	Without Wall Mount	3012 x 1833.5 x 31 mm
		118.58” x 72.18” x 1.22”
	With Wall Mount	3012 x 1833.5 x 53 mm
		118.58” x 72.18” x 2.08”
	With Back Mount	3012 x 1833.5 x 91 mm
		118.58” x 72.18” x 3.58”
	With Trolley	3012 x 2507.8 x 872.2 mm
		118.58” x 98.73” x 34.33”
Weight	Without Wall Mount	162 kg
		357.15 lbs
	With Wall Mount	178 kg
		392.42 lbs
	With Back Mount	196 kg
		438.71 lbs
	With Trolley	225 kg
		432.11 lbs
Power Consumption	On	609W (Normal) 1740W (Max)
	Off	< 0.5W

NOTE: Product specifications are subject to change without notice.

Timing Chart

HDMI (PC)

Resolution	Refresh Rate
640 x 480	60 Hz
800 x 600	60 Hz
1024 x 768	60 Hz
1280 x 768	60 Hz
1280 x 800	60 Hz
1280 x 960	60 Hz
1280 x 1024	60 Hz
1360 x 768	60 Hz
1366 x 768	60 Hz
1400 x 1050	60 Hz
1440 x 900	60 Hz
1600 x 1200	60 Hz
1680 x 1050	60 Hz
1920 x 1080	60 Hz

HDMI (Video)

Video	Resolution	Refresh Rate
480p	640 x 480	60 Hz
576p	720 x 576	50 Hz
800 x 600	800 x 600	60 Hz
1024 x 768	1024 x 768	60 Hz
720p	1280 x 720	50, 60 Hz
1080p	1920 x 1080	24, 25, 30, 50, 60 Hz
2560 x 1080	2560 x 1080	60 Hz
3440 x 1440	3440 x 1440	60 Hz
2160p	3840 x 2160	24, 25, 30, 50, 60 Hz

NOTE:

- The computer text quality is optimal in HD 1080 mode (1920 x 1080, 60 Hz).
- Your computer display screen might appear different depending on the manufacturer and your operating system.
- Consult your computer's instructional manual on how to connect to an external display.
- If a vertical and horizontal frequency-select mode exists, select 60 Hz (vertical) and 67.5 kHz (horizontal). In some cases, abnormal signals (such as stripes) might appear on the screen when the computer power is turned off (or if the computer is disconnected). If this is the case, press the [INPUT SOURCE] button to enter the video mode and supply an active signal.
- The display timings conform to VESA and CTA standards.
- For 4:3 content, the screen will display them in the center of the screen and maintain a 4:3 aspect ratio.
- The optimal vertical frequency for each mode is 60Hz.
- **HDMI 3** does not support YUV420.

Supported Media Formats

Type	File Type	Codec	Ability
Photo	.jpeg	JFIF file format 1.02	Max Resolution: 8176 x 8176 Min Resolution: 48 x 48
	.jpg	JFIF file format 1.02	Max Resolution: 8176 x 8176 Min Resolution: 48 x 48
	.bmp	BMP	Max Resolution: 8176 x 8176 Min Resolution: 48 x 49
	.gif	GIF	Max Resolution: 8176 x 8176 Min Resolution: 48 x 50
	.png	PNG	Max Resolution: 8176 x 8176 Min Resolution: 48 x 51
Audio	.mp1/2/3	MPEG 1/2 Layer 1/2/3	Bit rate: 8 kbps~320 kbps, CBR and VBR Sampling rate: 8 kHz~48 kHz
	.wma	WMA version 4, 4.1, 7, 8, 9, wmapro	Bit rate: 8 kbps~320 kbps Sampling rate: 8 kHz~48 kHz Non-support WMA Pro, lossless and MBR
	.wav	MS-ADPCM, IMA-ADPCM, PCM	Sampling rate: 8 kHz~48 kHz Support 4 bit MS-ADPCM, IMA-ADPCM
	.flac	Compress Level 0~8	Sampling rate: 8 kHz~48 kHz
	.aac\.m4a	ADIF ,ATDS Header AAC-LC and AAC-HE, AAC-ELD	Sampling rate: 8 kHz~48 kHz
	.oog\.oga	Q1~ Q10	Sampling rate: 8 kHz~48 kHz
Video	.3gp	MPEG4	Supported Image Size: 48 x 48 pixels to 1920 x 1080 pixels Maximum Frame Rate: 30 fps Maximum Bit Rate: 38.4 Mbps Not supported: MS MPEG4 v1, v2, v3 Not supported: GMC
		H.263	Supported Image Size: SQCIF (128 x 96), QCIF (176 x 144), CIF (352 x 288), 4CIF (704 x 576) Maximum Frame Rate: 30 fps Maximum Bit Rate: 38.4 Mbps Not supported: H.263+
		H.264	Supported Image Size: 48 x 48 pixels to 4096 x 2304 pixels Maximum Frame Rate: 2304p @ 30 fps, 1080p @ 60 fps Maximum Bit Rate: 100 Mbps Supported: Field Coding Supported: MBAFF

Type	File Type	Codec	Ability
Video	.asf	VC-1	Supported Image Size: 48 x 48 pixels to 1920 x 1080 pixels Maximum Frame Rate: 30 fps Maximum Bit Rate: 45 Mbps
	.avi	MPEG4	Supported Image Size: 48 x 48 pixels to 1920 x 1080 pixels Maximum Frame Rate: 30 fps Maximum Bit Rate: 38.4 Mbps Not supported: MS MPEG4 v1, v2, v3 Not supported: GMC
		H.264	Supported Image Size: 48 x 48 pixels to 4096 x 2304 pixels Maximum Frame Rate: 2304p @ 30 fps, 1080p @ 60 fps Maximum Bit Rate: 100 Mbps Supported: Field Coding Supported: MBAFF
		VC-1	Supported Image Size: 48 x 48 pixels to 1920 x 1080 pixels Maximum Frame Rate: 30 fps Maximum Bit Rate: 45 Mbps
		MJPEG	Supported Image Size: 48 x 48 pixels to 1920 x 1080 pixels Maximum Frame Rate: 30 fps Maximum Bit Rate: 38.4 Mbps
	.dat	MPEG-1/2	Supported Image Size: 48 x 48 pixels to 1920 x 1080 pixels Maximum Frame Rate: 30 fps Maximum Bit Rate: 80 Mbps Supported: Field Coding
	.flv	H.264	Supported Image Size: 48 x 48 pixels to 4096 x 2304 pixels Maximum Frame Rate: 2304p @ 30 fps, 1080p @ 60 fps Maximum Bit Rate: 100 Mbps Supported: Field Coding Supported: MBAFF

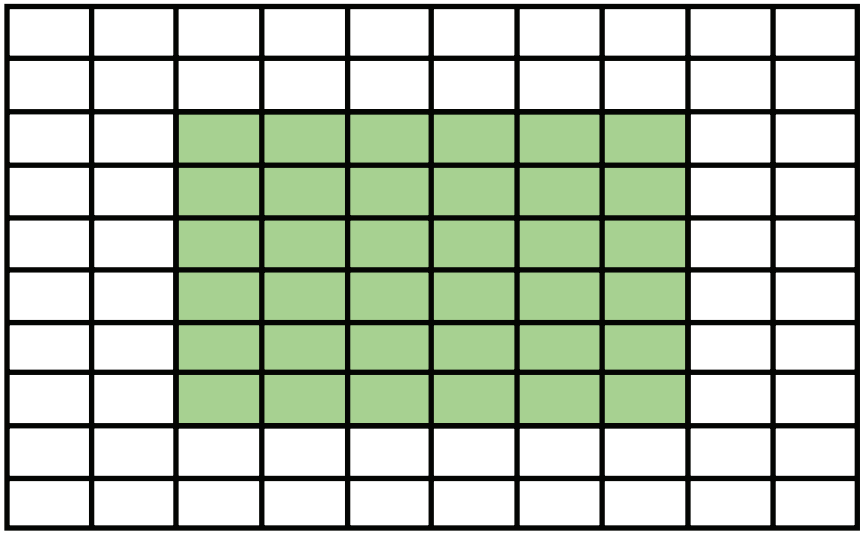
Type	File Type	Codec	Ability
Video	.mkv	MPEG4	Supported Image Size: 48 x 48 pixels to 1920 x 1080 pixels Maximum Frame Rate: 30 fps Maximum Bit Rate: 38.4 Mbps Not supported: MS MPEG4 v1, v2, v3 Not supported: GMC
		H.264	Supported Image Size: 48 x 48 pixels to 4096 x 2304 pixels Maximum Frame Rate: 2304p @ 30 fps, 1080p @ 60 fps Maximum Bit Rate: 100 Mbps Supported: Field Coding Supported: MBAFF
		H.264 MVC	Supported Image Size: 48 x 48 pixels to 4096 x 2304 pixels Maximum Frame Rate: 2304p @ 30 fps, 1080p @ 60 fps Maximum Bit Rate: 50 Mbps Supported: Stereo High Profile only
		H.265/HEVC	Supported Image Size: 64 x 64 pixels to 4096 x 2304 pixels Maximum Frame Rate: 2304p @ 60 fps Maximum Bit Rate: 100 Mbps Supported: Main Profile & Main10 Profile Supported: Tile & SLIC
		VC-1	Supported Image Size: 48 x 48 pixels to 1920 x 1080 pixels Maximum Frame Rate :30 fps Maximum Bit Rate: 45 Mbps
		VP8	Supported Image Size: 48 x 48 pixels to 1920 x 1080 pixels Maximum Frame Rate: 30 fps Maximum Bit Rate: 38.4 Mbps
		VP9	Supported Image Size: 48 x 48 pixels to 4096 x 2304 pixels Maximum Frame Rate: 2304p @ 60fps Maximum Bit Rate: 100 Mbps

Type	File Type	Codec	Ability
Video	.mov	MPEG4	Supported Image Size: 48 x 48 pixels to 1920 x 1080 pixels Maximum Frame Rate: 30 fps Maximum Bit Rate: 38.4 Mbps Not supported: MS MPEG4 v1, v2, v3 Not supported: GMC
		H.264	Supported Image Size: 48 x 48 pixels to 4096 x 2304 pixels Maximum Frame Rate: 2304p @ 30 fps, 1080p @ 60 fps Maximum Bit Rate: 100 Mbps Supported: Field Coding Supported: MBAFF
		H.265/HEVC	Supported Image Size: 64 x 64 pixels to 4096 x 2304 pixels Maximum Frame Rate: 2304p @ 60 fps Maximum Bit Rate: 100 Mbps Supported: Main Profile & Main10 Profile Supported: Tile & SLIC
		H.263	Supported Image Size: SQCIF (128 x 96), QCIF (176 x 144), CIF (352 x 288), 4CIF (704 x 576) Maximum Frame Rate: 30 fps Maximum Bit Rate: 38.4 Mbps Not supported: H.263+
	.mp4	MPEG4	Supported Image Size: 48 x 48 pixels to 1920 x 1080 pixels Maximum Frame Rate: 30 fps Maximum Bit Rate: 38.4 Mbps Not supported: MS MPEG4 v1, v2, v3 Not supported: GMC
	.mp5	H.264	Supported Image Size: 48 x 48 pixels to 4096 x 2304 pixels Maximum Frame Rate: 2304p @ 30 fps, 1080p @ 60 fps Maximum Bit Rate: 100 Mbps Supported: Field Coding Supported: MBAFF
	.mp6	H.265/HEVC	Supported Image Size: 64 x 64 pixels to 4096 x 2304 pixels Maximum Frame Rate: 2304p @ 60 fps Maximum Bit Rate: 100 Mbps Supported: Main Profile & Main10 Profile Supported: Tile & SLIC

Type	File Type	Codec	Ability
Video	.mp7	H.263	Supported Image Size: SQCIF (128 x 96), QCIF(176 x 144), CIF (352 x 288), 4CIF (704 x 576) Maximum Frame Rate: 30 fps Maximum Bit Rate: 38.4 Mbps Not supported: H.263+
	.mpg	MPEG-1/2	Supported Image Size: 48 x 48 pixels to 1920 x 1080 pixels Maximum Frame Rate: 30 fps Maximum Bit Rate: 80 Mbps Supported: Field Coding
	.ts	MPEG-1/2	Supported Image Size: 48 x 48 pixels to 1920 x 1080 pixels Maximum Frame Rate: 30 fps Maximum Bit Rate: 80 Mbps Supported: Field Coding
		H.264	Supported Image Size: 48 x 48 pixels to 4096 x 2304 pixels Maximum Frame Rate: 2304p @ 30 fps, 1080p @ 60 fps Maximum Bit Rate: 100 Mbps Supported: Field Coding Supported: MBAFF
		H.264 MVC	Supported Image Size: 48 x 48 pixels to 4096 x 2304 pixels Maximum Frame Rate: 2304p @ 30 fps, 1080p @ 60 fps Maximum Bit Rate: 50 Mbps Supported: Stereo High Profile only
		H.265/HEVC	Supported Image Size: 64 x 64 pixels to 4096 x 2304 pixels Maximum Frame Rate: 2304p @ 60 fps Maximum Bit Rate: 100 Mbps Supported: Main Profile & Main10 Profile Supported: Tile & SLIC
		VC-1	Supported Image Size: 48 x 48 pixels to 1920 x 1080 pixels Maximum Frame Rate: 30 fps Maximum Bit Rate: 45 Mbps
	.vob	MPEG-1/2	Supported Image Size: 48 x 48 pixels to 1920 x 1080 pixels Maximum Frame Rate: 30 fps Maximum Bit Rate: 80 Mbps Supported: Field Coding

Type	File Type	Codec	Ability
Video	.webm	VP8	Supported Image Size: 48 x 48 pixels to 1920 x 1080 pixels Maximum Frame Rate: 30 fps Maximum Bit Rate: 38.4 Mbps
		VP9	Supported Image Size: 48 x 48 pixels to 4096 x 2304 pixels Maximum Frame Rate: 2304p @ 60 fps Maximum Bit Rate: 100 Mbps
	.wmv	VC-1	Supported Image Size: 48 x 48 pixels to 1920 x 1080 pixels Maximum Frame Rate: 30 fps Maximum Bit Rate: 45 Mbps

LED Display Stuck Pixel Definition

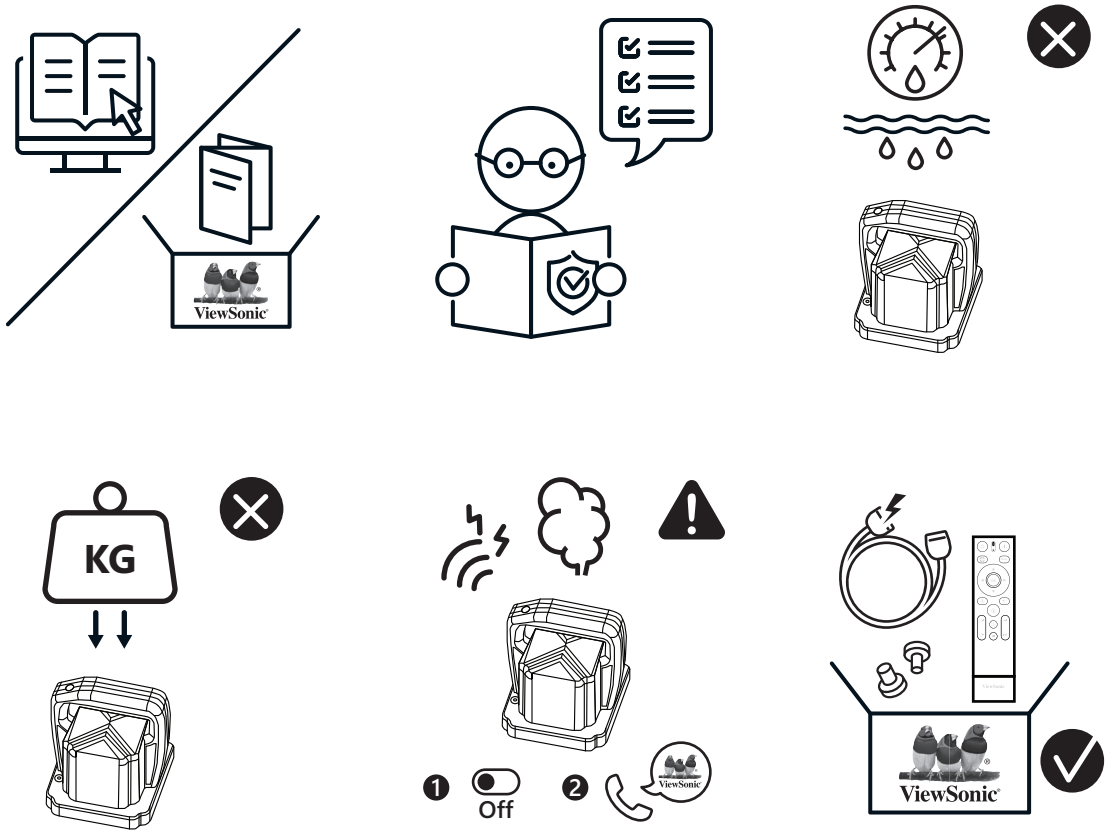


Item	Acceptance Criteria
Stuck Pixel (whole display)	≤ 60 stuck pixels
Stuck Pixel (as marked in green)	≤ 15 stuck pixels
Stuck Pixel (Single Module)	≤ 6 stuck pixels

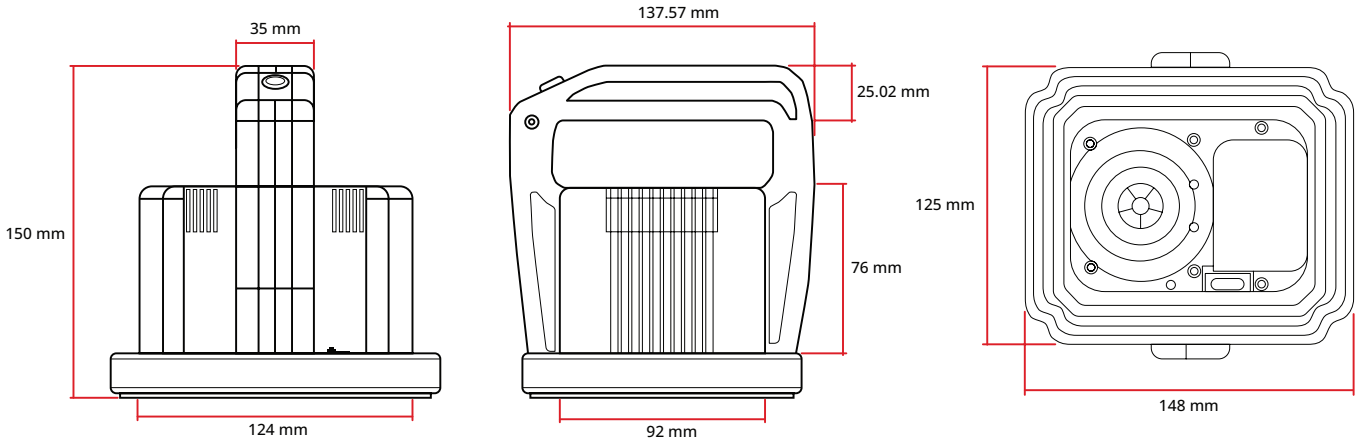
Maintenance Tools

Vacuum Suction Tool (LED Module Maintenance Tool)

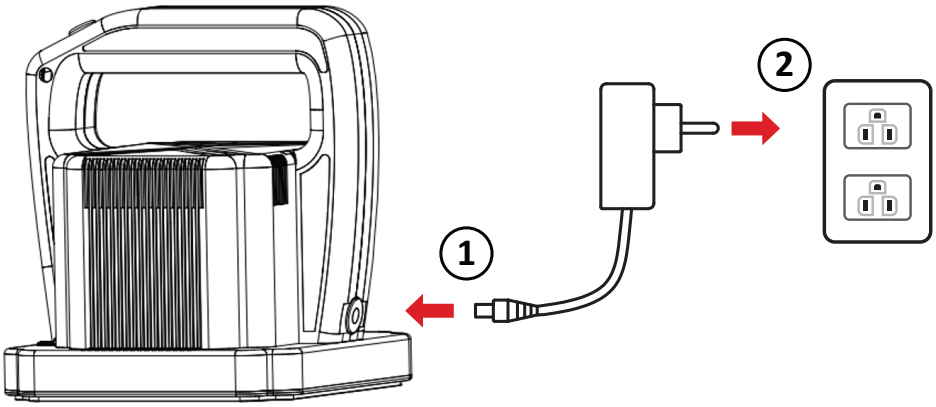
Safety Precautions



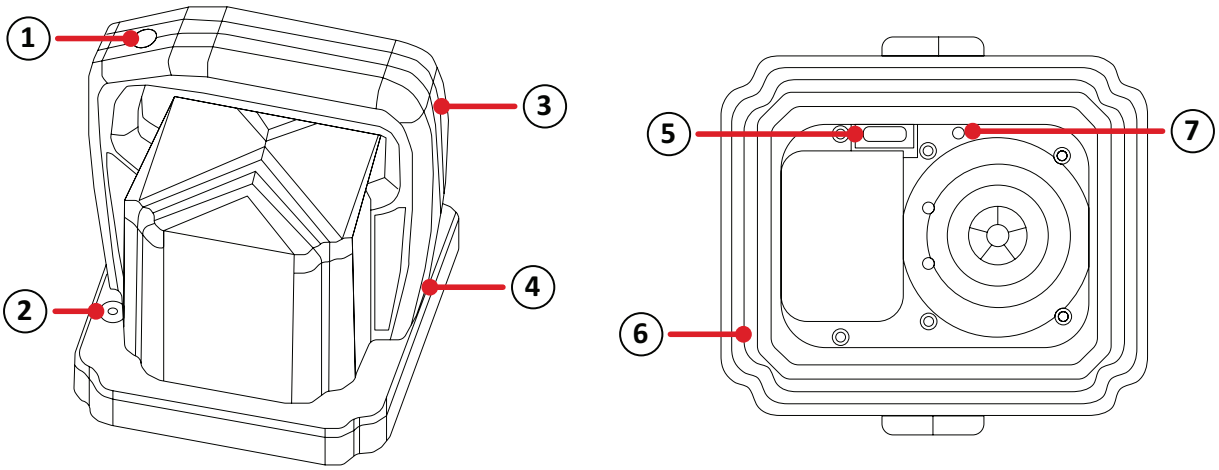
Dimensions



Charging the Battery



Overview



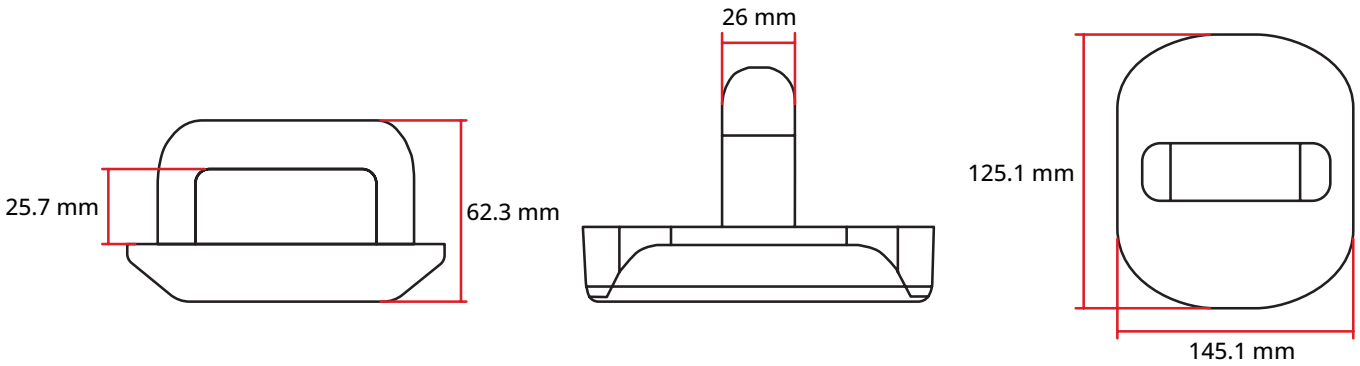
Number	Item	Description
1	Start Button	Start or stop the suction force.
2	Regulating Valve	Adjust the suction force level.
3	Handle	Pick up and hold the tool from here.
4	Charging Port	Port for charging the battery.
5	Power Switch	Turn the tool on or off.
6	LED Module Contact Silicone	Soft contact surface for removing the LED modules.
7	Power Display	Indicates how much battery power is remaining.

Specifications

Item	Description
Model	LD-MK-003
Product Dimension	148 x 125 x 150 mm
	5.83” x 4.92” x 5.91”
Weight	0.9 kg
	1.98 lbs
Working Duration	18 minutes
Operating Relative Humidity	15%~85% (non-condensing)
Operating Temperature	-20° C to 45° C
	-4° F to 113° F

System Control Box Maintenance Tool

Dimensions



Specifications

Item	Description
Model	LD-MK-004
Product Dimension	145.1 x 125.1 x 62.3 mm
	5.71” x 4.93”x 2.45”
Weight	0.5 kg
	1.10 lbs

Troubleshooting

General

Problem or Issue	Possible Solutions
Remote Control is not working	**1.** Check whether something is obstructing the display's remote control receiver. **2.** Check whether the battery polarities in the remote control are installed correctly. **3.** Check whether the batteries need to be replaced.
The unit turns off unexpectedly	**1.** Check whether Sleep mode is enabled. **2.** Check if there is a power outage in your area. **3.** Turn on the display, provide an active signal, and see if the problem is with the signal or external control system. **4.** Check whether the Ethernet cables inside the cabinets are connected properly.
The power indicator is off, and there is no response	**1.** Ensure the power cable is connected and not loose. **2.** Check that the power outlet is functioning properly and meets the required electrical requirement.
The display does not recognize the USB storage device	**1.** Ensure the drive is either formatted for FAT32 or NTFS. **2.** If the USB storage device needs external power, connect its power adapter to an electrical outlet.

Video Not Working Properly

Problem or Issue	Possible Solutions
No picture/No sound	**1.** Check the Power status. **2.** Check the signal cable. **3.** Use the remote control to ensure the input source setting is the same as the connected device.
Picture is unclear or cuts in and out	**1.** Check the signal cable. **2.** Check if other electronics or different signal types are interrupting the signal. **3.** An optional active video cable or optional video extender is required for a long distance source.
Poor picture	**1.** Adjust chroma and/or brightness settings in the menu. **2.** Check the signal cable. **3.** Use the display's native resolution for the source.

Audio Not Working Properly

Problem or Issue	Possible Solutions
No sound	**1.** Press the Mute/Unmute button. **2.** Adjust the volume. **3.** Check the audio cable connection (if used). **4.** If using a computer digital video with embedded audio, ensure the computer speakers are set to external speakers.

Problem or Issue	Possible Solutions
One speaker only	**1.** Adjust the sound balance in the menu. **2.** Check the left and right sound control panel settings of the computer or media player source. **3.** Check the audio cable connection (if used). **4.** Ensure the content has two audio channels and not mono.

Maintenance

General Precautions

- The LED lights used in the modules are susceptible to ESD (Electrostatic discharge). To prevent damage to the LED lights, do not touch them with bare hands or with conductive materials when handling.
- Wear anti-static gloves and wrist strap when installing and servicing the display.
- It is recommended to regularly inspect all installed components.
- Do not bring objects close to the ventilation holes of the display. Burns or personal injuries may occur if any body parts are brought too close.
- Be sure to power off and disconnect all cables before moving the display. Moving the display with its cables attached may damage the cables and thus cause fire or electric shock.
- Power off and disconnect the power plug from the wall outlet as a safety precaution before performing any type of cleaning or maintenance.

Initial Operation

- If a new screen has been stowed for less than three months, it can be used at normal brightness during its first use.
- If a new screen has been stowed for more than three months, the brightness should be set at 30% for its first use and allowed to operate for two hours continuously. After two hours of use, power off for 30 minutes. The new screen is now ready for normal brightness usage.

Front Panel Cleaning Instructions

- Use cool, compressed air to remove dust when the power is off. If the dust cannot be removed, the LED module should be replaced.
- Do not scratch and do not put pressure on the panel surface with fingers or any abrasive object.
- Do not use volatile substances such as sprays, solvents, or thinners.

Cabinet Cleaning Instructions

- Do not allow water or detergent to come into contact with the surface of the display. If water or moisture gets inside the unit, a system malfunction or electrical shock may occur.
- Do not scratch and do not put pressure on the cabinet with any abrasive objects of any kind.
- Do not use volatile substances such as sprays, solvents, or thinners on the cabinet.
- Do not place anything made from rubber or PVC near the cabinet for any extended periods of time.

Regular Use

- It is recommended to turn on the display at least once a month for more than eight hours. During a wet and rainy season, it is recommended to turn on the display at least once a week.
- Avoid using full white, full red, full blue, or full green content for an extended period to avoid excessive power usage thus affecting the LED lifespan.

RS-232 Protocol

This document describes the hardware interface and software protocols of RS-232 interface communication between the ViewSonic LED Display and computers or other control units with RS-232 protocol.

Description

RS-232 Hardware Specification

ViewSonic RS-232 serial port on the lower left side:

1. Connector type: DB 9-Pin Female.

2. Use of straight-through parallel cable for connection

3. Pin Assignment:

Female DB 9-Pin



Pin #	Signal	Remark
1	NC	
2	RXD	Input to Display
3	TXD	Output from Display
4	NC	
5	GND	GND
6	NC	
7	NC	
8	NC	
9	NC	
frame	GND	

RS-232 Communication Setting

- Baud Rate Select: 9600bps (fixed)
- Data bits: 8 bits (fixed)
- Parity: None (fixed)
- Stop Bits: 1 (fixed)

NOTE: Make sure the Control Board Switch is switched to the left for RS-232 control.

Command Table

Function	Command Code (Hex)	Hex	Data Range
Power on/off(standby):STBY	21	38 30 31 73 21 30 30 30 0D	
Power on/off(standby):ON	21	38 30 31 73 21 30 30 31 0D	
Input Select:USB auto play	22	38 30 31 73 22 30 30 33 0D	
Input Select:HDMI1	22	38 30 31 73 22 30 30 34 0D	
Input Select:HDMI2	22	38 30 31 73 22 30 31 34 0D	
Input Select:HDMI3	22	38 30 31 73 22 30 32 34 0D	
Input Select:HDMI4	22	38 30 31 73 22 30 33 34 0D	
Brightness	24	38 30 31 73 24 3X 3X 3X 0D	000-100
Brightness:Bright down (-1)	24	38 30 31 73 24 39 30 30 0D	
Brightness:Bright up (+1)	24	38 30 31 73 24 39 30 31 0D	
Power lock:Unlock	34	38 30 31 73 34 30 30 30 0D	
Power lock:Lock	34	38 30 31 73 34 30 30 31 0D	
Volume	35	38 30 31 73 35 3X 3X 3X 0D	000-100
Volume:Volume down(-1)	35	38 30 31 73 35 39 30 30 0D	
Volume:Volume up(+1)	35	38 30 31 73 35 39 30 31 0D	
Mute:OFF	36	38 30 31 73 36 30 30 30 0D	
Mute:ON	36	38 30 31 73 36 30 30 31 0D	
Button lock:Unlock	38	38 30 31 73 38 30 30 30 0D	
Button lock:Lock	38	38 30 31 73 38 30 30 31 0D	
Menu lock:Unlock	3E	38 30 31 73 3E 30 30 30 0D	
Menu lock:Lock	3E	38 30 31 73 3E 30 30 31 0D	
Key Pad:UP	41	38 30 31 73 41 30 30 30 0D	
Key Pad:DOWN	41	38 30 31 73 41 30 30 31 0D	
Key Pad:LEFT	41	38 30 31 73 41 30 30 32 0D	
Key Pad:RIGHT	41	38 30 31 73 41 30 30 33 0D	
Key Pad:ENTER	41	38 30 31 73 41 30 30 34 0D	
Key Pad:INPUT	41	38 30 31 73 41 30 30 35 0D	
Key Pad:MENU/(EXIT)	41	38 30 31 73 41 30 30 36 0D	
Key Pad:EXIT	41	38 30 31 73 41 30 30 37 0D	
Key Pad:power on/off	41	38 30 31 73 41 30 30 38 0D	
Key Pad:inputlist	41	38 30 31 73 41 30 30 39 0D	
Key Pad:brightness	41	38 30 31 73 41 30 31 30 0D	
Key Pad:blank	41	38 30 31 73 41 30 31 31 0D	
Key Pad:home	41	38 30 31 73 41 30 31 32 0D	
Key Pad:volume+	41	38 30 31 73 41 30 31 33 0D	
Key Pad:volume-	41	38 30 31 73 41 30 31 34 0D	
Key Pad:next	41	38 30 31 73 41 30 31 35 0D	
Key Pad:previous	41	38 30 31 73 41 30 31 36 0D	
Key Pad:mute	41	38 30 31 73 41 30 31 37 0D	
Key Pad:play	41	38 30 31 73 41 30 31 38 0D	

Function	Command Code (Hex)	Hex	Data Range
Remote Control:Disable	42	38 30 31 73 42 30 30 30 0D	
Remote Control:Enable	42	38 30 31 73 42 30 30 31 0D	
Restore default	7E	38 30 31 73 7E 30 30 30 0D	
Input Select: Cycle	22	38 30 31 73 22 30 30 5A 0D	
Contrast	23	38 30 31 73 23 3X 3X 3X 0D	000-100
Sharpness	25	38 30 31 73 25 3X 3X 3X 0D	000-100
Color	26	38 30 31 73 26 3X 3X 3X 0D	000-100
Tint	27	38 30 31 73 27 3X 3X 3X 0D	000-100
Color mode:Normal	29	38 30 31 73 29 30 30 30 0D	
Color mode:Warm	29	38 30 31 73 29 30 30 31 0D	
Color mode:Cold	29	38 30 31 73 29 30 30 32 0D	
Color mode:Personal	29	38 30 31 73 29 30 30 33 0D	
Freeze:Off	2A	38 30 31 73 2A 30 30 30 0D	
Freeze:On	2A	38 30 31 73 2A 30 30 31 0D	
Bass	2E	38 30 31 73 2E 3X 3X 3X 0D	000-024
Treble	2F	38 30 31 73 2F 3X 3X 3X 0D	000-024
zoom mode:FULL(16:9)	31	38 30 31 73 31 30 30 30 0D	
zoom mode:NORMAL (4:3)	31	38 30 31 73 31 30 30 31 0D	
zoom mode:REAL (1:1)	31	38 30 31 73 31 30 30 32 0D	
zoom mode:21:9	31	38 30 31 73 31 30 30 33 0D	
OSD language:English	32	38 30 31 73 32 30 30 30 0D	
OSD language:French	32	38 30 31 73 32 30 30 31 0D	
OSD language:Spanish	32	38 30 31 73 32 30 30 32 0D	
OSD language:German	32	38 30 31 73 32 30 30 33 0D	
OSD language:Russian	32	38 30 31 73 32 30 30 34 0D	
OSD language:Dutch	32	38 30 31 73 32 30 30 35 0D	
OSD language:T-Chinese	32	38 30 31 73 32 30 30 36 0D	
OSD language:S-Chinese	32	38 30 31 73 32 30 30 37 0D	
OSD language:Turkish	32	38 30 31 73 32 30 30 38 0D	
OSD language:Arabic	32	38 30 31 73 32 30 30 39 0D	
PBP-Mode:Full Screen	39	38 30 31 73 39 30 30 30 0D	
PBP-Mode:Dual Screen	39	38 30 31 73 39 30 30 31 0D	
PBP-Mode:Three-part Screen	39	38 30 31 73 39 30 30 32 0D	
PBP-Mode:Quad Screen	39	38 30 31 73 39 30 30 33 0D	
PBP-Sound select:Main	3A	38 30 31 73 3A 30 30 30 0D	
PBP-Sound select:Sub	3A	38 30 31 73 3A 30 30 31 0D	
Date: Year	56	38 30 31 73 56 59 3X 3X 0D	17-99
Date: Month	56	38 30 31 73 56 4D 3X 3X 0D	01-12
Date: Day	56	38 30 31 73 56 44 3X 3X 0D	01-31
Time: Hour	57	38 30 31 73 57 48 3X 3X 0D	00-23
Time: Min	57	38 30 31 73 57 4D 3X 3X 0D	00-59

Function	Command Code (Hex)	Hex	Data Range
Time: Sec	57	38 30 31 73 57 53 3X 3X 0D	00-59
Get-Brightness	62	38 30 31 67 62 30 30 30 0D	
Get-Volume	66	38 30 31 67 66 30 30 30 0D	
Get-Mute	67	38 30 31 67 67 30 30 30 0D	
Get-Input select	6A	38 30 31 67 6A 30 30 30 0D	
Get-Power status	6C	38 30 31 67 6C 30 30 30 0D	
Get-Remote control	6E	38 30 31 67 6E 30 30 30 0D	
Get-Power lock	6F	38 30 31 67 6F 30 30 30 0D	
Get-Button lock	70	38 30 31 67 70 30 30 30 0D	
Get-Menu lock	71	38 30 31 67 71 30 30 30 0D	
Get-ACK	7A	38 30 31 67 7A 30 30 30 0D	
Get-Thermal	30	38 30 31 67 30 30 30 30 0D	
Get-Operation hour	31	38 30 31 67 31 30 30 30 0D	
Get-Device name	34	38 30 31 67 34 30 30 30 0D	
Get-MAC address	35	38 30 31 67 35 30 30 30 0D	
Get-IP address	36	38 30 31 67 36 30 30 30 0D	
Get-Serial number	37	38 30 31 67 37 30 30 30 0D	
Get-FW version	38	38 30 31 67 38 30 30 30 0D	
Get-Contrast	61	38 30 31 67 61 30 30 30 0D	
Get-Sharpness	63	38 30 31 67 63 30 30 30 0D	
Get-Color	64	38 30 31 67 64 30 30 30 0D	
Get-Tint	65	38 30 31 67 65 30 30 30 0D	
Get Freeze	69	38 30 31 67 69 30 30 30 0D	
Get-PBP mode	74	38 30 31 67 74 30 30 30 0D	
Get-Date: Year	32	38 30 31 67 32 59 30 30 0D	
Get-Date: Month	32	38 30 31 67 32 4D 30 30 0D	
Get-Date: Day	32	38 30 31 67 32 44 30 30 0D	
Get-Time: Hour	33	38 30 31 67 33 48 30 30 0D	
Get-Time: Min	33	38 30 31 67 33 4D 30 30 0D	
Get-Time: Sec	33	38 30 31 67 33 53 30 30 0D	

Get Operation Time Example

Assumed the accumulated operation time is 00,123,456 hrs.

Send: 38 30 31 67 31 30 30 30 0D (Get Operation time)

Reply: 32 30 31 72 31 31 32 33 34 35 36 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 0D

Regulatory and Service Information

Compliance Information

This section addresses all connected requirements and statements regarding regulations. Confirmed corresponding applications shall refer to nameplate labels and relevant markings on the unit.

FCC Compliance Statement

This device complies with part 15 of FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The antenna(s) used for this transmitter must not be collocated or operating in conjunction with any other antenna or transmitter.

The device was tested and complies to measurement standards and procedures specified in FCC CFR Tile 47 Part 15 Subpart C.

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Warning: You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

IC Warning Statement

This device complies with Industry Canada license- exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, méme si le brouillage est susceptible d'en compromettre le fonctionnement.

Country Code Statement

For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not possible.

Pour les produits disponibles aux États-Unis/Canada du marché, seul le canal 1 à 11 peuvent être exploités. Sélection d'autres canaux n'est pas possible.

IC Radiation Exposure Statement

This equipment complied with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body. The device for the band 5150-5825 MHz is only for indoor usage to reduce potential for harmful interference to co-channel mobile satellite systems.

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlê. Cet équipement doit être installé et utilize avec un minimum de 20cm de distance entre la source de rayonnement et votre corps. les dispositifs fonctionnant dans la bande 5150-5825 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux.

CE Conformity for European Countries

CE The device complies with the EMC Directive 2014/30/EU, Low Voltage Directive 2014/35/EU, and Radio Equipment Directive 2014/53/EU.

The following information is only for EU-member states:

The mark shown to the right is in compliance with the Waste Electrical and Electronic Equipment Directive 2012/19/EU (WEEE). The mark indicates the requirement NOT to dispose of the equipment as unsorted municipal waste, but use the return and collection systems according to local law.



Declaration of RoHS2 Compliance

This product has been designed and manufactured in compliance with Directive 2011/65/EU of the European Parliament and the Council on restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS2 Directive) and is deemed to comply with the maximum concentration values issued by the European Technical Adaptation Committee (TAC) as shown below:

Substance	Proposed Maximum Concentration	Actual Concentration
Lead (Pb)	0.1%	< 0.1%
Mercury (Hg)	0.1%	< 0.1%
Cadmium (Cd)	0.01%	< 0.01%
Hexavalent Chromium ($Cr6^{+}$)	0.1%	< 0.1%
Polybrominated biphenyls (PBB)	0.1%	< 0.1%
Polybrominated diphenyl ethers (PBDE)	0.1%	< 0.1%
Bis (2-ethylhexyl) phthalate (DEHP)	0.1%	< 0.1%
Butyl benzyl phthalate (BBP)	0.1%	< 0.1%
Dibutyl phthalate (DBP)	0.1%	< 0.1%
Diisobutyl phthalate (DIBP)	0.1%	< 0.1%

Certain components of products as stated above are exempted under the Annex III of the RoHS2 Directives as noted below. Examples of exempted components are:

- Copper alloy containing up to 4% lead by weight.
- Lead in high melting temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead).
- Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound.
- Lead in dielectric ceramic in capacitors for a rated voltage of 125V AC or 250V DC or higher.

European Union Regulatory Conformance

The equipment complies with the RF Exposure Requirement 2014/53/EU, Council Recommendation of 16 April 2014 on the limitation of exposure of the general public to electromagnetic fields (0-300 GHz). This equipment meets the following conformance standards: EN301489-1, EN301489-17, EN62368-1, EN300328.

We, hereby, declare that this Wi-Fi radio is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.

Indian Restriction of Hazardous Substances

Restriction on Hazardous Substances statement (India). This product complies with the “India E-waste Rule 2011” and prohibits use of lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers in concentrations exceeding 0.1 weight % and 0.01 weight % for cadmium, except for the exemptions set in Schedule 2 of the Rule.

Product Disposal at End of Product Life

ViewSonic® respects the environment and is committed to working and living green. Thank you for being part of Smarter, Greener Computing. Please visit the ViewSonic® website to learn more.

USA & Canada:

https://www.viewsonic.com/us/go-green-with-viewsonic

Europe:

https://www.viewsonic.com/eu/environmental-social-governance/recycle

Taiwan:

https://recycle.moenv.gov.tw/

For EU users, please contact us for any safety/accident issue experienced with this product:

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Customer Service

For technical support or product service, see the table below or contact your reseller.

NOTE: You will need the product's serial number.

Country/ Region	Website	Country/ Region	Website
Asia Pacific & Africa			
Australia	www.viewsonic.com/au/	Bangladesh	www.viewsonic.com/bd/
中国 (China)	www.viewsonic.com.cn	香港 (繁體中文)	www.viewsonic.com/hk/
Hong Kong (English)	www.viewsonic.com/hk-en/	India	www.viewsonic.com/in/
Indonesia	www.viewsonic.com/id/	Israel	www.viewsonic.com/il/
日本 (Japan)	www.viewsonic.com/jp/	Korea	www.viewsonic.com/kr/
Malaysia	www.viewsonic.com/my/	Middle East	www.viewsonic.com/me/
Myanmar	www.viewsonic.com/mm/	Nepal	www.viewsonic.com/np/
New Zealand	www.viewsonic.com/nz/	Pakistan	www.viewsonic.com/pk/
Philippines	www.viewsonic.com/ph/	Singapore	www.viewsonic.com/sg/
臺灣 (Taiwan)	www.viewsonic.com/tw/	ประเทศไทย	www.viewsonic.com/th/
Việt Nam	www.viewsonic.com/vn/	South Africa & Mauritius	www.viewsonic.com/za/
Americas			
United States	www.viewsonic.com/us	Canada	www.viewsonic.com/us
Latin America	www.viewsonic.com/la		
Europe			
Europe	www.viewsonic.com/eu/	France	www.viewsonic.com/fr/
Deutschland	www.viewsonic.com/de/	Қазақстан	www.viewsonic.com/kz/
Россия	www.viewsonic.com/ru/	España	www.viewsonic.com/es/
Türkiye	www.viewsonic.com/tr/	Україна	www.viewsonic.com/ua/
United Kingdom	www.viewsonic.com/uk/		

Limited Warranty

ViewSonic® Commercial Display

What the warranty covers:

ViewSonic® warrants its products to be free from defects in material and workmanship during the warranty period. If a product proves to be defective in material or workmanship during the warranty period, ViewSonic® will, at its sole option, and as your sole remedy, repair or replace the product with a similar product. Replacement Product or parts may include remanufactured or refurbished parts or components. The repair or replacement unit or parts or components will be covered by the balance of the time remaining on the customer's original limited warranty and the warranty period will not be extended. ViewSonic® provides no warranty for any third-party software whether included with the product or installed by the customer, installation of any unauthorized hardware parts or components (e.g. Projector Lamps). (Please refer to: "What the warranty excludes and does not cover" section).

Who the warranty protects:

This warranty is valid only for the first consumer purchaser.

What the warranty excludes and does not cover:

- Any product on which the serial number has been defaced, modified, or removed.
- Damage, deterioration, or malfunction resulting from:
  - » Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
  - » Repair or attempted repair by anyone not authorized by ViewSonic®.
  - » Damage to or loss of any programs, data, or removable storage media.
  - » Normal wear and tear.
  - » Removal or installation of the product.
- Software or data loss occurring during repair or replacement.
- Any damage of the product due to shipment.
- Causes external to the product, such as electric power fluctuations or failure.
- Use of supplies or parts not meeting ViewSonic's specifications.
- Failure of owner to perform periodic product maintenance as stated in the User Guide.

- Any other cause which does not relate to a product defect.
- Damage caused by static (non-moving) images displayed for lengthy periods of time (also referred to as image burn-in).
- Software - Any third-party software included with the product or installed by the customer.
- Hardware/Accessories/Parts/Components – Installation of any unauthorized hardware, accessories, consumable parts or components (e.g. Projector Lamps).
- Damage to, or abuse of, the coating on the surface of the display through inappropriate cleaning as described in the product User Guide.
- Removal, installation, and set-up service charges, including wall-mounting of the product.

How to get service:

- For information about receiving service under warranty, contact ViewSonic® Customer Support (Please refer to the "Customer Service" page). You will need to provide your product's serial number.
- To obtain warranty service, you will be required to provide: (a) the original dated sales slip, (b) your name, (c) your address, (d) a description of the problem, and (e) the serial number of the product.
- Take or ship the product, freight prepaid, in the original container to an authorized ViewSonic® service center or ViewSonic®.
- For additional information or the name of the nearest ViewSonic® service center, contact ViewSonic®.

Limitation of implied warranties:

There are no warranties, express or implied, which extend beyond the description contained herein including the implied warranty of merchantability and fitness for a particular purpose.

Exclusion of damages:

ViewSonic's liability is limited to the cost of repair or replacement of the product. ViewSonic® shall not be liable for:

- Damage to other property caused by any defects in the product, damages based upon inconvenience, loss of use of the product, loss of time, loss of profits, loss of business opportunity, loss of goodwill, interference with business relationships, or other commercial loss, even if advised of the possibility of such damages.
- Any other damages, whether incidental, consequential or otherwise.
- Any claim against the customer by any other party.
- Repair or attempted repair by anyone not authorized by ViewSonic®.

Effect of state law:

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Some states do not allow limitations on implied warranties and/or do not allow the exclusion of incidental or consequential damages, so the above limitations and exclusions may not apply to you.

Sales outside the U.S.A. and Canada:

For warranty information and service on ViewSonic® products sold outside of the U.S.A. and Canada, contact ViewSonic® or your local ViewSonic® dealer.

The warranty period for this product in mainland China (Hong Kong, Macao, and Taiwan Excluded) is subject to the terms and conditions of the Maintenance Guarantee Card.

For users in Europe and Russia, full details of warranty provided can be found at: http://www.viewsonic.com/eu/ under "Support/Warranty Information".

Mexico Limited Warranty

ViewSonic® Commercial Display

What the warranty covers:

ViewSonic® warrants its products to be free from defects in material and workmanship, under normal use, during the warranty period. If a product proves to be defective in material or workmanship during the warranty period, ViewSonic® will, at its sole option, repair or replace the product with a like product. Replacement product or parts may include remanufactured or refurbished parts or components & accessories.

Who the warranty protects:

This warranty is valid only for the first consumer purchaser.

What the warranty excludes and does not cover:

- Any product on which the serial number has been defaced, modified or removed.
- Damage, deterioration, or malfunction resulting from:
  - » Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, unauthorized attempted repair, or failure to follow instructions supplied with the product.
  - » Causes external to the product, such as electrical power fluctuations or failure.
  - » Use of supplies or parts not meeting ViewSonic®'s specifications.
  - » Normal wear and tear.
  - » Any other cause which does not relate to a product defect.
- Any product exhibiting a condition commonly known as "image burn-in" which results when a static image is displayed on the product for an extended period of time.
- Removal, installation, insurance, and set-up service charges.

How to get service:

For information about receiving service under warranty, contact ViewSonic® Customer Support (Please refer to the attached "Customer Service" page). You will need to provide your product's serial number, so please record the product information in the space provided below on your purchase for your future use. Please retain your receipt of proof of purchase to support your warranty claim.

For Your Records

Product Name: _____ Model Number: _____

Document Number: _____ Serial Number: _____

Purchase Date: _____ Extended Warranty Purchase? _____(Y/N)

If so, what date does warranty expire? _____

- To obtain warranty service, you will be required to provide (a) the original dated sales slip, (b) your name, (c) your address, (d) a description of the problem, and (e) the serial number of the product.
- Take or ship the product, in the original container packaging, to an authorized ViewSonic® service center.
- Round trip transportation costs for in-warranty products will be paid by ViewSonic®.

Limitation of implied warranties:

There are no warranties, express or implied, which extend beyond the description contained herein including the implied warranty of merchantability and fitness for a particular purpose.

Exclusion of damages:

ViewSonic®'s liability is limited to the cost of repair or replacement of the product. ViewSonic® shall not be liable for:

- Damage to other property caused by any defects in the product, damages based upon inconvenience, loss of use of the product, loss of time, loss of profits, loss of business opportunity, loss of goodwill, interference with business relationships, or other commercial loss, even if advised of the possibility of such damages.
- Any other damages, whether incidental, consequential or otherwise.
- Any claim against the customer by any other party.
- Repair or attempted repair by anyone not authorized by ViewSonic®.

Contact Information for Sales & Authorized Service (Centro Autorizado de Servicio) within Mexico:	
Name, address, of manufacturer and importers: México, Av. de la Palma #8 Piso 2 Despacho 203, Corporativo Interpalmas, Col. San Fernando Huixquilucan, Estado de México Tel: (55) 3605-1099 http://www.viewsonic.com/la/soporte/index.htm	
NÚMERO GRATIS DE ASISTENCIA TÉCNICA PARA TODO MÉXICO: 001.866.823.2004	
Hermosillo: Distribuciones y Servicios Computacionales SA de CV. Calle Juarez 284 local 2 Col. Bugambilias C.P: 83140 Tel: 01-66-22-14-9005 E-Mail: disc2@hmo.megared.net.mx	***Villahermosa:*** Compumantenimietnos Garantizados, S.A. de C.V. AV. GREGORIO MENDEZ #1504 COL, FLORIDA C.P. 86040 Tel: 01 (993) 3 52 00 47 / 3522074 / 3 52 20 09 E-Mail: compumantenimientos@prodigy.net.mx
Puebla, Pue. (Matriz): RENTA Y DATOS, S.A. DE C.V. Domicilio: 29 SUR 721 COL. LA PAZ 72160 PUEBLA, PUE. Tel: 01(52).222.891.55.77 CON 10 LINEAS E-Mail: datos@puebla.megared.net.mx	***Veracruz, Ver.:*** CONEXION Y DESARROLLO, S.A DE C.V. Av. Americas # 419 ENTRE PINZÓN Y ALVARADO Fracc. Reforma C.P. 91919 Tel: 01-22-91-00-31-67 E-Mail: gacosta@qplus.com.mx
Chihuahua: Soluciones Globales en Computación C. Magisterio # 3321 Col. Magisterial Chihuahua, Chih. Tel: 4136954 E-Mail: Cefeo@soluglobales.com	***Cuernavaca:*** Compusupport de Cuernavaca SA de CV Francisco Leyva # 178 Col. Miguel Hidalgo C.P. 62040, Cuernavaca Morelos Tel: 01 777 3180579 / 01 777 3124014 E-Mail: aquevedo@compusupportcva.com
Distrito Federal: QPLUS, S.A. de C.V. Av. Coyoacán 931 Col. Del Valle 03100, México, D.F. Tel: 01(52)55-50-00-27-35 E-Mail : gacosta@qplus.com.mx	***Guadalajara, Jal.:*** SERVICRECE, S.A. de C.V. Av. Niños Héroes # 2281 Col. Arcos Sur, Sector Juárez 44170, Guadalajara, Jalisco Tel: 01(52)33-36-15-15-43 E-Mail: mmiranda@servicrece.com
Guerrero Acapulco: GS Computación (Grupo Sesicomp) Progreso #6-A, Colo Centro 39300 Acapulco, Guerrero Tel: 744-48-32627	***Monterrey:*** Global Product Services Mar Caribe # 1987, Esquina con Golfo Pérsico Fracc. Bernardo Reyes, CP 64280 Monterrey N.L. México Tel: 8129-5103 E-Mail: aydeem@gps1.com.mx
MERIDA: ELECTROSER Av Reforma No. 403Gx39 y 41 Mérida, Yucatán, México CP97000 Tel: (52) 999-925-1916 E-Mail: rrrb@sureste.com	***Oaxaca, Oax.:*** CENTRO DE DISTRIBUCION Y SERVICIO, S.A. de C.V. Murguía # 708 P.A., Col. Centro, 68000, Oaxaca Tel: 01(52)95-15-15-22-22 Fax: 01(52)95-15-13-67-00 E-Mail. gpotai2001@hotmail.com
Tijuana: STD Av Ferrocarril Sonora #3780 L-C Col 20 de Noviembr Tijuana, Mexico	***FOR USA SUPPORT:*** ViewSonic® Corporation 381 Brea Canyon Road, Walnut, CA. 91789 USA Tel: 800-688-6688 E-Mail: http://www.viewsonic.com


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